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HOT SALE!

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MIGHTY MITE

THIS IS A UNIVERSAL SET-UP BOOK FOR THE TC114, TC130, TC136, TC142 OR TC154 MIGHTY MITE TUBE CHECKERS. THIS PROTECTIVE COVER IS DESIGNED SO THAT YOU MAY CARRY THE BOOKLET IN THE SMALL COMPARTMENT WITHOUT DAMAGE OR IT CAN BE ATTACHED TO THE COVER TO REPLACE BOOKLETS THAT HAVE BEEN PREVIOUSLY CEMENTED IN THE COVER. NOTE THAT LARGE TYPE IS USED SO THAT INDEXING IS NO LONGER NECESSARY. THIS SAVES WEAR ON THE SET-UP PAGES.

SENCORE MIGHTY MITE

AMERICA'S MOST POPULAR TUBE TESTER

- *Fast, Accurate, Never Lets You Down.*
- *Smaller Than A Portable Typewriter. Weighs Only 9 lbs.*
- *Rugged All Steel Construction. For Shop or Home.*
- *New Low Voltage Checks For Novistors And Frame Grid Tubes As Recommended By All Tube Manufacturers.*

OPERATING INSTRUCTIONS

Set controls A, B, C and D according to set-up chart and insert tube in socket as indicated in chart. Use plate cap lead if tube has plate cap. Set FUNCTION switch to CAL and adjust CAL control so that meter reads full scale (marked cal.). Set FUNCTION switch to EMISSION and read top scale on meter. If tube reads good emission, set FUNCTION switch to GRID LEAKAGE and read lower scale to check grid leakage.

SHORT TEST

Set FUNCTION switch to SHORT TEST. Rotate switch D through all positions. Short indicator light will glow on both electrodes if tube is shorted or has excessive leakage. Disregard any faint flashes in short indicator. Tubes marked with an asterisk (*) in set-up chart have internal connections that will show up as a short on settings indicated. H-K setting is for heater to cathode leakage (or short) test.

ADDITIONAL TESTS TO MAKE

The Mighty Mites test tubes under the maximum specified filament voltage and under full rated cathode load current. If a tube is *FILAMENT SENSITIVE*, the tube will usually show good on the meter, but may not work in the circuit. This is particularly true in series string sets and circuits that normally operate at their maximum limits. But, if the line voltage is low, the cathode drops in emission level and the

circuit ceases to function. Yet, it can test **GOOD** in the **Mighty Mite** and even work perfectly in another set where filament and cathode load current are back at the optimum level.

The test you should make on every tube for **FILAMENT SENSITIVITY** is nothing more than a **LIFE TEST**. When you test the tube for emission, and it reads in the **GOOD** area of the meter, switch the **FILAMENT (A)** switch **DOWN** one step (i.e. 6V to 4-5V). A good tube will not budge the meter needle one iota, but a filament sensitive tube will cause the meter reading to drop off quickly.

If the meter reading falls off but still remains in the **GOOD** area, the tube is still acceptable, but once the meter reading hits the question mark (?) or **BAD** area, this tube should be replaced.

You should run this quick **LIFE TEST** on all tubes you check. This will give you double insurance that the tube will work in the circuit.

When replacing a costly horizontal output tube in a television receiver, it is a good idea to check the horizontal oscillator tube for emission, filament sensitive cathode, and for warm up time. If the horizontal oscillator tube is slower in warming up due to a weak cathode or filament sensitive cathode, the output tube will draw heavy current and its life will be shortened considerably. Checking the warm up time of the oscillator tube and making sure that it is as fast or faster than the output tube can reduce the chance of a call back later for the same trouble and keep your customer's confidence high in your service ability.

MAGNOVAL BASED TUBES

† All tubes marked with a dagger (†) are magnoval based tubes and are checked in socket number 12 on the **Mighty Mite V** and in socket number 5 on the **Mighty Mites II, III and IV**. When checking the magnoval based tubes in socket number 5, **DO NOT** insert this tube fully into the socket, as the pins are larger in diameter than the novar based tubes. If the tube is inserted fully into the socket it can spread the contacts and cause damage. Instead, hold the tube while making firm contact between the tube pins and socket contacts for the test. This will eliminate any possibility of damage to the socket when checking the magnoval based tubes.

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
1A5	1	F	6	E	1	1B7	1	G	6	E	1
1A7	1	G	6	E	1	1B8	1	F	6	E	1
1AB5	1	E	8	F	9		1	G	6	K	1
1AB6	1	F	8	D	7		1	G	6	H	1
1AC6	1	F	6	D	7	*1BC2	1	J	6	K	8
1AE4	1	G	5	F	7		(Normal Shorts A, F, H-K)				
1AF4	1	F	5	F	7	*1BH2	1	J	6	K	8
1AF5	1	G	6	F	7		(Normal Shorts A, F, H-K)				
	1	H	6	C	7	*1BK2	1	J	1	K	8
*1AG2	1	H	1	K	8		(Disregard Shorts)				
	(Disregard Shorts)					*1BQ2	1	J	2	K	5
*1AG3	1	H	1	K	8		(Disregard Shorts)				
	(Disregard Shorts)					1C3	1	F	2	D	7
1AH5	1	G	6	F	7	1C5	1	F	6	E	1
	1	H	6	C	7	1C7	2	F	6	E	1
*1AJ2	1	H	4	K	10	1D5	2	F	6	K	1
	(Disregard Shorts)					1D7	2	F	6	E	1
1AJ4	1	G	5	F	7	1D8	1	F	6	E	1
1AM4	1	G	5	F	7		1	G	6	K	1
1AN5	1	G	5	F	7		1	G	6	H	1
1AQ5	1	G	5	D	7	1DN5	1	F	6	F	7
1AR5	1	G	6	F	7		1	H	6	D	7
	1	H	6	C	7	*1DY4	1	D	7	B	4
1AS5	1	G	6	F	7		(Normal Shorts, A, G)				
	1	H	6	D	7	1E3	1	D	3	A	3
*1AU2	1	H	7	A	8	1E4	1	F	6	E	1
	(Disregard Shorts)					1E5	2	G	6	K	1
*1AU3	1	J	3	K	1	1E7	2	E	6	D	1
	(Disregard Shorts)						2	E	6	E	1
*1AX2	1	J	1	K	8	1F5	2	E	6	E	1
	(Disregard Shorts)					1F7	2	G	6	K	1
1AY2	1	J	6	K	4		2	G	6	E	1
	(Touch leads into pins 5 and 1 of socket 3 and use cap lead)						2	G	6	D	1
*1B3	1	H	3	K	1	*1G3	1	F	3	K	1
	(Disregard Shorts)						(Disregard Shorts)				

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
1G4	1	F	6	E	1	1LN5	1	F	5	F	9
1G5	2	E	6	E	1	*1N2	1	H	3	K	1
1G6	1	F	6	D	1	(Disregard Shorts)					
	1	F	6	E	1	1N5	1	F	6	K	1
*1H2	1	H	1	K	8	1N6	1	F	6	E	1
(Disregard Shorts)							1	G	6	F	1
1H4	2	F	6	E	1	1P5	1	F	6	K	1
1H5	1	G	6	K	1	1Q5	1	E	6	E	1
	1	G	6	E	1	1R4	1	H	6	D	9
1H6	2	F	6	F	1	1R5	1	F	5	D	7
	2	G	6	E	1	*1R-K31	1	J	6	K	8
	2	G	6	D	1	(Disregard Shorts)					
*1J3	1	J	3	K	1	*1R-K41	1	J	6	K	8
(Disregard Shorts)						(Disregard Shorts)					
1J5	2	E	6	E	1	*1S2	1	H	1	K	8
1J6	2	F	6	D	1	(Disregard Shorts)					
	2	F	6	E	1	*1S4	1	F	5	C	7
*1K3	1	J	3	K	1	(Normal Short B, F)					
(Disregard Shorts)						1S5	1	G	6	F	7
1L4	1	F	5	F	7		1	H	6	C	7
1L6	1	G	6	D	7	1SA6	1	F	6	D	1
1LA4	1	F	6	F	9	1SB6	1	G	6	H	1
1LA6	1	F	6	D	9		1	G	6	E	1
1LB4	1	F	4	F	9	1T2	1	H	6	K	4
1LB6	1	F	6	F	9	(Insert two tube leads into pin 3 and 4; touch cap lead to top lead on tube)					
1LC5	1	F	5	F	9	1T4	1	F	5	F	7
1LC6	1	F	6	D	9	1T5	1	E	6	E	1
1LD5	1	G	6	D	9	1U4	1	F	5	F	7
	1	G	6	F	9	1U5	1	G	6	F	7
1LE3	1	F	5	F	9		1	H	6	D	7
1LF3	1	F	5	F	9	1U6	1	G	6	D	7
1LG5	1	F	5	F	9	*1V2	1	H	3	A	8
1LH4	1	F	6	F	9	(Disregard Shorts)					
	1	G	6	D	9						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
1W4	1	F	6	F	7	*2DY4	2	D	7	B	4
*1X2	1	H	1	K	8						
	(Disregard Shorts)						(Normal Shorts A, G)				
2AH2	(See last page)					*2DZ4	2	D	7	B	4
*2AF4	2	D	7	B	4						
	(Normal Short A, G)						(Normal Shorts A, G)				
*2AV2	1	H	3	A	8	*2E24	3	C	1	E	1
	(Disregard Shorts)										
2AZ2	2	H	6	K	8		(Normal Shorts D, F, H-K)				
	(Disregard Shorts)					2E25	6	C	6	E	1
*2B3	1	H	1	K	1	*2E26	6	A	1	E	1
	(Disregard Shorts)										
*2BA2	1	H	3	A	8		(Normal Short D, F)				
	(Disregard Shorts)					2E30	6	C	8	A	4
2BC5	2	E	2	A	4	2EA5	2	E	8	A	4
2BH5	2	F	6	D	6	2EG4	2	F	6	D	6
*2BJ2	2	G	1	K	8	2EN5	2	F	6	B	4
	(Normal Shorts C, F, G)						2	F	6	G	4
*2BN4	2	E	2	G	4	2ER5	2	E	8	B	4
	(Normal Short A, F)					2ES5	2	E	8	B	4
*2BU2	2	G	9	K	10	2EV5	2	E	8	A	4
	(Disregard Shorts)					2FH5	2	E	8	B	4
2C22	6	E	7	K	1	2FQ5	2	E	8	B	4
2C26	6	E	7	K	1	2FS5	2	D	2	A	4
2C50	12	E	6	A	2	2FV6	2	E	2	A	4
	12	E	6	D	2	2FY5	2	E	1	B	4
2C52	12	F	6	A	2	2GK5	2	E	8	B	4
	12	F	6	D	2	2GU5	2	E	2	A	4
2CN3	2	I	6	K	2	2GW5	2	D	7	B	4
2CW4	2	F	6	D	6	2HA5	2	E	2	A	4
2CY5	2	E	2	A	4	2HK5	2	E	2	A	4
2DF4	2	B	10	H	3	2HM5	2	D	2	A	4
2DS4	2	G	6	D	6	2HQ5	2	E	2	A	4
*2DX4	2	D	7	B	4	2HR8	2	F	6	J	3
	(Normal Shorts A, G)					*2J2	2	H	1	K	8
							(Disregard Shorts)				
						2N-H11	2	G	6	D	6
						2N-H12	2	F	6	D	6

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*2T4	2	D	7	B	4	3B7	3	F	4	C	2
(Normal Short, A, G)						3	F	4	F	2	
*2V2	2	J	5	K	1	(Normal Shorts A, H-K)					
(Disregard Shorts)						3BA6	3	D	6	A	4
2V3	2	H	6	K	1	3BC5	3	E	2	A	4
*2W3	2	B	6	D	1	3BE6	3	D	6	A	4
(Normal Short H, H-K)						(Normal Short A, F)					
2X3	2	B	6	K	1	*3BF2	3	G	11	K	10
*3A2	3	H	1	K	8	(Disregard Shorts except H-K)					
(Disregard Shorts)						*3BH2	3	J	6	K	8
*3A3	3	H	9	K	1	(Normal Shorts A, F, H-K)					
(Disregard Shorts)						*3BL2	3	J	9	K	10
*3A4	3	F	5	D	7	(Disregard Shorts)					
(Normal Short B, F)						*3BM2	3	H	9	K	10
3A5	3	F	4	C	7	(Disregard Shorts)					
3	F	4	E	7		3BN2	3	J	9	K	10
3A8	3	G	1	K	1	*3BN4	3	E	2	G	4
3	G	1	H	1		(Normal Shorts A, F)					
3	G	1	E	1		3BN6	3	H	6	E	4
*3AF4	3	D	7	B	4	(Emission and Short Test)					
(Normal Short A, G)						3	H	6	B	4	
3AJ8	3	E	6	B	3	(Grid Leakage Test)					
3	F	6	J	3		*3BS2	3	J	9	K	10
3AL5	3	E	6	B	4	(Disregard Shorts)					
3	E	6	G	4		3BU8	3	D	6	G	3
*3AT2	3	H	9	K	10	3BX6	3	D	1	B	3
(Disregard Shorts)						3BY6	3	D	6	A	4
3AU6	3	D	6	A	4	3BY7	3	D	3	B	3
3AV6	3	F	6	A	4	3BZ6	3	D	6	A	4
3	G	6	E	4		*3C2	3	H	5	K	1
3	G	6	F	4		(Disregard Shorts)					
*3AW2	3	J	9	K	10	3C4	3	G	5	F	7
(Disregard Shorts)						3C5	3	F	9	E	1
*3AW3	3	H	9	K	1	3C6	3	F	8	D	9
(Disregard Shorts)						3	F	8	E	9	
3B5	3	E	9	E	1						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*3CA3	3	H	3	K	1	3EA5	3	E	8	A	4
(Disregard Shorts)						3EH7	3	D	3	B	3
3CB6	3	D	6	A	4	3EJ7	3	D	3	B	3
3CE5	3	E	2	A	4	3ER5	3	E	8	B	4
3CF6	3	D	6	A	4	3ES5	3	E	8	B	4
3CN3	3	J	6	K	1	3EV5	3	E	8	A	4
*3CQ3	3	H	6	K	1	3FH5	3	E	8	B	4
(Disregard Shorts)						3FQ5	3	E	8	B	4
3CS6	3	D	6	A	4	3FS5	3	D	2	A	4
*3CV3	3	J	1	K	1	3FY5	3	E	1	B	4
(Disregard Shorts)						3GK5	3	E	8	B	4
3CU3	3	H	9	K	1	3GS8	3	D	6	G	3
*3CX3	3	J	2	K	2	3GU5	3	D	2	A	4
(Disregard Shorts)						3GW5	3	D	7	B	4
3CY5	3	E	2	A	4	3HA5	3	D	2	A	4
*3CZ3	3	H	3	K	1	3HK5	3	E	2	A	4
(Disregard Shorts)						3HM5	3	D	2	A	4
3D6	1	E	8	F	9	3HM6	3	D	1	B	3
3D21	12	C	1	F	1	3HQ5	3	E	2	A	4
*3DB3	3	J	3	K	1	3HS8	3	D	6	G	3
(Disregard Shorts)						3HT6	3	D	1	B	3
*3DC3	3	J	3	K	1	3JC6	3	D	1	B	3
(Normal Shorts A, E, G)						3JD6	3	D	1	B	3
3DG4	(See last page)					3JH6	3	D	6	A	4
3DK6	3	D	6	A	4	3KF8	3	D	6	G	3
3DT6	3	E	6	A	4	3KT6	3	D	3	B	3
*3DX4	3	D	7	B	4	3LE4	3	E	8	F	9
(Normal Shorts A, G)						3LF4	3	E	8	F	9
*3DY4	3	D	7	B	4	3M-P26	3	F	6	A	4
(Normal Shorts A, G)						3M-R24	3	D	6	A	4
3DZ4	3	D	7	B	4	3M-V7	3	D	6	A	4
(Normal Shorts A, G)						*3Q4	3	F	5	C	7
3E5	3	F	5	F	7	(Normal Short B, F)					
3E6	3	F	5	F	9	3Q5	3	E	9	E	1
*3E22	12	A	5	B	2						
(Normal Shorts A, C, F)											

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*3S4	3	F	5	C	7	4BZ6	4	D	6	A	4
(Normal Short B, F)						4BZ7	4	E	6	B	3
3V4	3	F	5	F	7	4	E	6	G	3	
*3W4	3	F	5	C	7	4BZ8	4	E	6	B	3
(Normal Short B, F)						4	E	6	G	3	
*3Z4	3	F	5	C	7	4CB6	4	D	6	A	4
(Normal Short B, F)						4CE5	4	E	2	A	4
4A6	4	G	9	D	1	4CM4	4	E	3	F	8
	4	G	9	E	1	4CS6	4	E	6	A	4
*4AF4	4	D	7	B	4	4CX7	4	E	9	B	3
(Normal Shorts A, G)						4	E	9	G	3	
4AU6	4	D	6	A	4	4CY5	4	E	2	A	4
4AV6	4	F	6	A	4	4DE6	4	D	6	A	4
	4	G	6	E	4	4DK6	4	D	6	A	4
	4	G	6	F	4	4DT6	4	E	6	A	4
4BA6	4	D	6	A	4	4EH7	4	D	3	B	3
4BC5	4	E	2	A	4	4EJ7	4	D	3	B	3
4BC8	4	E	6	B	3	4ES8	4	D	6	B	3
	4	E	6	G	3	4	D	6	G	3	
4BE6	4	D	6	A	4	4EW6	4	D	6	A	4
4BL8	4	D	6	B	3	4FS7	4	D	6	B	3
	4	D	6	J	3	4	D	6	F	3	
*4BN4	4	E	2	G	4	4GJ7	4	D	3	B	3
(Normal Short A, F)						4	E	3	J	3	
4BN6	4	H	6	E	4	4GK5	4	E	8	B	4
(Emission and Short Test)						4GM6	4	D	6	A	4
	4	H	6	B	4	4GS7	4	D	3	A	3
(Grid Leakage Test)						4	D	3	J	3	
4BQ7	4	E	6	B	3	4GS8	4	D	6	G	3
	4	E	6	G	3	4GW5	4	D	7	B	4
4BS8	4	E	6	B	3	4GX7	4	D	3	B	3
	4	E	6	G	3	4	D	3	J	3	
4BU8	4	D	6	G	3	4GZ5	4	C	5	B	4
4BX8	4	E	6	B	3	4HA5	4	E	2	A	4
	4	E	6	G	3						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
4HA7	4	E	5	J	10	4R-HH8	4	D	6	B	3
	4	E	5	A	10		4	D	6	G	3
4HC7	4	D	8	J	10	5A6	5	C	10	G	3
	4	G	8	A	10	*5AF4	5	D	7	B	4
4HG8	4	D	3	B	3	(Normal Short A, G)					
	4	D	3	F	3	5AM8	5	D	6	B	3
4HK5	4	E	2	A	4		5	F	6	H	3
4HM5	4	D	2	A	4	5AN8	5	D	6	B	3
4HM6	4	D	1	B	3		5	D	6	H	3
4HQ5	4	E	2	A	4	5AQ4	5	B	6	D	1
4HR8	4	F	6	J	3		5	B	6	F	1
4HS8	4	D	6	G	3	5AQ5	5	C	8	A	4
4HT6	4	D	1	B	3	*5AR4	5	A	1	D	1
4JC6	4	D	1	B	3		5	A	1	F	1
4JD6	4	D	1	B	3	(Normal Short H, H-K)					
4JH6	4	D	6	A	4	*5AS4	5	A	6	D	1
4JH6	4	D	6	A	3		5	A	6	F	1
4JK6	4	D	6	A	4	(Normal Short H, H-K)					
4JL6	4	D	6	A	4	5AS8	5	D	6	B	3
4KE8	4	D	6	J	3		5	F	6	F	3
	4	E	6	B	3	*5AT4	5	A	6	D	1
4KF8	4	D	6	G	3		5	A	6	F	1
4KN8	4	D	6	B	3	(Normal Short H, H-K)					
	4	D	6	G	3	5AT8	5	D	6	A	3
4KT6	4	D	3	B	3		5	D	6	J	3
4LJ8	4	D	3	A	3	*5AU4	5	A	6	D	1
	4	D	3	J	3		5	A	6	F	1
4LU6	4	C	6	A	4	(Normal Short H, H-K)					
4MK8	4	E	6	G	3	5AV8	5	E	6	B	3
4M-P2	4	C	6	A	4		5	E	6	F	3
4M-P12	5	C	6	A	4	*5AW4	5	A	6	D	1
4R-HH2	4	E	6	B	3		5	A	6	F	1
	4	E	6	G	3	(Normal Short H, H-K)					

TUBE	A	B	C	D	Skt
*5AX4	5	A	6	D	1
	5	A	6	F	1
(Normal Short H, H-K)					
*5AZ4	5	B	6	D	9
	5	B	6	F	9
(Normal Short B, H-K)					
*5B8	5	D	6	B	3
	5	D	6	F	3
(Permissible Short A Only)					
5BC3	(See last page)				
*5BE8	5	D	6	A	3
	5	D	6	J	3
(Permissible Short C Only)					
5BK7	5	E	6	B	3
	5	E	6	G	3
5BM8	5	C	6	C	3
	5	F	6	A	3
*5BQ5	5	C	1	B	3
(Permissible Short F, H and one other Pin)					
5BQ7	5	E	6	B	3
	5	E	6	G	3
5BR8	5	D	6	A	3
	5	D	6	J	3
5BS8	5	E	6	B	3
	5	E	6	G	3
5BT8	5	D	6	H	3
	5	G	6	B	3
	5	G	6	A	3
5BW8	5	D	6	F	3
	5	F	6	C	3
	5	F	6	A	3
5BZ7	5	E	6	B	3
	5	E	6	G	3

TUBE	A	B	C	D	Skt
*5CG4	5	A	6	D	1
	5	A	6	F	1
(Normal Short H, H-K)					
5CG8	5	E	3	A	3
	5	E	3	J	3
5CL8	5	D	6	A	3
	5	D	6	J	3
5CM6	5	C	7	C	3
5CM8	5	E	6	B	3
	5	F	6	J	3
5CQ8	5	D	6	J	3
	5	D	6	B	3
5CR8	5	D	6	B	3
	5	E	6	J	3
*5CU4	5	A	6	D	1
	5	A	6	F	1
(Normal Short H, H-K)					
*5CZ5	5	C	7	C	3
(Permissible Short H and one other Pin)					
*5DH8	5	D	6	J	3
	5	D	6	A	3
(Permissible Short C Only)					
*5DN4	5	A	6	D	1
	5	A	6	F	1
5EA8	5	D	6	J	3
	5	D	6	B	3
5EH8	5	D	1	B	3
	5	D	1	G	3
5ES8	5	E	6	B	3
	5	E	6	G	3
5EU8	5	D	6	B	3
	5	D	6	G	3
5EW6	5	D	6	A	4

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
5FG7	5	D	3	J	3	5MB8	5	D	6	A	3
	5	E	3	A	3		5	E	6	J	3
5FV8	5	D	6	A	3	5M-HH3	5	E	6	E	4
	5	D	6	J	3		5	E	6	F	4
5GH8	5	D	6	B	3	5M-K9	5	B	6	E	4
	5	D	6	J	3	5MQ8	5	E	6	B	3
5GJ7	5	D	3	B	3		5	D	6	J	3
	5	E	3	J	3	*5R4	5	A	6	D	1
5GM6	5	D	6	A	4		5	A	6	F	1
5GS7	5	E	3	A	3	(Normal Short H, H-K)					
	5	E	3	J	3	5R-DDHI	5	E	6	A	3
5GX6	5	E	6	A	4		5	E	6	F	3
5GX7	5	D	3	B	3	5R-HR1	5	D	6	B	3
	5	D	3	J	3		5	D	6	J	3
5HA7	5	E	5	J	10	5R-HPI	5	D	6	B	3
	5	E	5	A	10		5	D	6	J	3
5HB7	5	D	3	B	3	5R-K16	5	A	6	A	3
	5	D	3	J	3		5	A	6	H	3
5HC7	5	D	8	J	10	*5T4	5	A	6	D	1
	5	G	8	A	10		5	A	6	F	1
5HG8	5	D	3	B	3	(Normal Short H, H-K)					
	5	D	3	F	3	5T8	5	F	6	H	3
5HZ6	5	F	6	A	4		5	G	6	B	3
5J6	5	E	6	E	4		5	G	6	F	3
	5	E	6	F	4		5	G	6	A	3
5JK6	5	D	6	A	4	*5U4	5	A	6	D	1
5KD8	5	D	6	B	3		5	A	6	F	1
	5	D	6	J	3	(Normal Short H, H-K)					
5KE8	5	D	6	J	3	5U8	5	D	6	B	3
	5	E	6	B	3		5	D	6	J	3
5KZ8	5	D	6	B	3	5U9	5	D	6	C	11
	5	D	6	J	3		5	D	6	K	11
5LJ8	5	D	3	A	3	*5V3	5	A	6	D	1
	5	D	3	J	3		5	A	6	F	1
						(Normal Short H, H-K)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*5V4	5	B	6	D	1	6AC9	6	D	6	B	10
	5	B	6	F	1		6	D	6	C	10
(Normal Short H, H-K)							6	D	6	J	10
5V6	5	C	6	E	1	6AC10	6	E	6	A	10
5V9	5	D	6	H	11		6	E	6	G	10
	5	E	6	C	11		6	E	6	J	10
*5W4	5	B	6	D	1	6AC11	6	E	6	C	10
	5	B	6	F	1		6	E	6	F	10
(Normal Short H, H-K)							6	C	6	H	10
5X4	5	A	6	C	2	6AD5	6	F	6	E	1
	5	A	6	E	2	6AD7	6	G	6	A	1
5X8	5	E	6	B	3		6	F	6	E	1
	5	E	6	G	3	6AD8	6	E	6	B	3
5X9	5	D	6	C	11		6	G	6	H	3
	5	E	6	K	11		6	G	6	G	3
*5Y3	5	B	6	D	1	6AD10	6	E	6	C	10
	5	B	6	F	1		6	C	6	H	10
(Normal Short H, H-K)						6AE5	6	G	6	E	1
5Y4	5	B	6	C	2	6AE6	6	F	6	E	1
	5	B	6	E	2	6AE7	6	F	6	D	1
*5Z4	5	A	6	D	1		6	F	6	F	1
	5	A	6	F	1	6AE8	6	E	6	B	3
(Normal Short H, H-K)							6	F	6	G	3
6A5	6	C	9	E	1	*6AF3	6	A	2	J	3
6A8	6	E	6	E	1	(Disregard Shorts except H-K)					
6AB4	6	E	6	F	4	*6AF4	6	D	7	B	4
6AB7	6	D	6	D	1	(Normal Short A, G)					
6AB8	6	D	6	J	3	6AF5	6	F	6	E	1
	6	F	6	B	3	*6AF9	6	C	6	H	11
6AB9	6	D	6	A	11		6	D	6	A	11
	6	D	6	G	11	(Normal Shorts B only)					
6AC5	6	F	6	E	1	6AF10	6	D	6	C	10
6AC7	6	D	6	D	1		6	E	6	K	10

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6AF11	6	C	6	A	10	6AK9	6	E	7	C	10
	6	F	6	F	10		6	E	7	K	10
	6	F	6	C	10		6	B	7	J	10
6AG5	6	E	2	A	4	6AK10	6	E	6	A	10
6AG6	6	F	6	E	1		6	E	6	G	10
6AG7	6	C	6	D	1		6	E	6	J	10
6AG9	6	E	6	E	10	*6AL3	6	A	7	C	8
	6	C	6	A	10	(Use second setting if first setting gives no reading)					
6AG10	6	D	6	A	10	*6AL3	6	A	2	J	3
6AG11	6	E	6	H	10	(Disregard Shorts except H-K)					
	6	E	6	E	10	6AL5	6	E	6	B	4
	6	F	6	K	10		6	E	6	G	4
	6	F	6	C	10	6AL6	6	E	6	E	1
6AH4	6	C	6	A	1	6AL9	6	E	9	E	10
6AH5	6	F	6	F	1		6	C	9	A	10
6AH6	6	D	6	A	4	6AL11	6	C	6	H	10
6AH7	6	F	6	A	2		6	D	6	C	10
	6	F	6	E	2	6AM5	6	D	6	A	4
6AH9	6	E	5	B	10	6AM6	6	E	6	A	4
	6	C	5	F	10	6AM8	6	D	6	B	3
6AJ5	6	G	2	A	4		6	G	6	H	3
6AJ7	6	E	6	D	1	*6AN4	6	D	7	B	4
6AJ8	6	E	6	B	3	(Normal Short A, G)					
	6	E	6	J	3	6AN5	6	C	2	A	4
6AJ9	6	C	6	C	11	6AN6	6	F	6	B	7
	6	D	6	K	11		6	F	6	C	7
6AK5	6	E	2	A	4		6	F	6	D	7
6AK6	6	D	6	A	4		6	F	6	E	7
6AK7	6	C	6	D	1	6AN7	6	E	6	B	3
6AK8	6	F	6	H	3		6	F	6	J	3
	6	G	6	F	3	6AN8	6	D	6	B	3
	6	G	6	B	3		6	D	6	H	3
	6	G	6	A	3	*6AQ4	6	E	7	A	4
						(Normal Short B, E)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6AQ5	6	C	8	A	4	6AU4	6	A	2	E	2
6AQ6	6	F	6	A	4	6AU5	6	A	6	A	1
	6	G	6	F	4	6AU6	6	D	6	A	4
	6	G	6	E	4	6AU7	6	D	10	B	3
6AQ7	6	F	6	D	2		6	D	10	G	3
	6	G	6	C	2	6AU8	6	D	6	G	3
	6	G	6	A	2		6	D	6	B	3
6AQ8	6	D	6	B	3	6AV4	6	A	6	A	4
	6	D	6	G	3		6	A	6	F	4
6AR5	6	C	6	A	4	6AV5	6	A	6	A	1
*6AR6	6	G	6	E	2	6AV6	6	F	6	A	4
(Make Emission and Short Test only; Normal Short F, H-K)							6	G	6	E	4
6AR7	6	F	6	K	9		6	G	6	F	4
	6	G	6	F	9	6AV8	6	D	6	B	3
	6	G	6	E	9		6	D	6	H	3
6AR8	6	D	6	F	3	6AV11	6	D	6	A	10
6AR11	6	D	6	E	10		6	D	6	G	10
	6	D	6	K	10		6	D	6	J	10
6AS5	6	C	5	B	4	6AW7	6	F	6	B	2
6AS6	6	E	6	A	4		6	G	6	C	2
6AS7	6	A	6	A	2		6	G	6	D	2
	6	A	6	D	2	6AW8	6	D	6	G	3
6AS8	6	D	6	B	3		6	F	6	B	3
	6	F	6	E	3	*6AX2	6	J	11	K	8
6AS11	6	D	6	A	10	(Disregard Shorts)					
	6	D	6	C	10	6AX3	6	A	11	D	10
	6	D	6	F	10	6AX4	6	A	2	E	2
6AT6	6	F	6	A	4	6AX5	6	B	6	C	1
	6	G	6	E	4		6	B	6	E	1
	6	G	6	F	4	6AX6	6	A	6	C	1
6AT7	6	E	6	B	3		6	A	6	E	1
	6	E	6	G	3	6AX7	6	F	10	B	3
6AT8	6	D	6	A	3		6	F	10	G	3
	6	D	6	J	3	6AX8	6	D	6	B	3
							6	D	6	J	3

TUBE	A	B	C	D	Skt
*6AY3	6	A	8	B	5
(Disregard Shorts except H-K)					
6AY11	6	E	6	K	10
	6	E	6	C	10
	6	F	6	H	10
	6	F	6	E	10
6AZ8	6	D	6	F	3
	6	D	6	J	3
6B3	6	B	6	H	8
6B4	6	C	6	E	1
6B6	6	F	6	K	1
	6	G	6	E	1
	6	G	6	D	1
6B8	6	E	6	K	1
	6	G	6	E	1
	6	G	6	D	1
6B10	6	E	6	C	10
	6	E	6	E	10
	6	F	6	H	10
	6	F	6	K	10
6BA3	6	A	8	B	5
(Disregard Shorts except H-K)					
6BA6	6	D	6	A	4
6BA7	6	D	6	B	3
6BA8	6	D	6	G	3
	6	D	6	B	3
6BA11	6	D	6	J	10
	6	E	6	D	10
6BC4	6	D	8	C	8
6BC5	6	E	2	A	4
6BC7	6	E	6	B	3
	6	E	6	F	3
	6	E	6	H	3
6BC8	6	E	6	B	3
	6	E	6	G	3

TUBE	A	B	C	D	Skt
6BD4	6	G	6	E	1
6BD5	6	A	6	A	1
6BD6	6	D	6	A	4
6BD7	6	F	6	H	3
	6	G	6	F	3
	6	G	6	B	3
6BD11	6	D	6	A	10
	6	E	6	C	10
	6	F	6	F	10
6BE3	6	A	4	K	10
6BE6	6	D	6	A	4
6BE7	6	F	9	G	3
*6BE8	6	D	6	A	3
	6	D	6	J	3
(Permissible Short C Only)					
6BF5	6	C	8	A	4
6BF6	6	F	6	A	4
	6	G	6	E	4
	6	G	6	F	4
6BF8	6	F	6	A	3
	6	F	6	B	3
	6	F	6	C	3
	6	F	6	G	3
	6	F	6	H	3
	6	F	6	J	3
6BF11	6	C	6	H	10
	6	D	6	C	10
6BG6	6	A	6	E	1
*6BH3	6	A	8	B	5
(Disregard Shorts except H-K)					
6BH5	6	F	9	B	3
6BH6	6	E	6	A	4
6BH8	6	D	6	G	3
	6	D	6	B	3

TUBE	A	B	C	D	Skt
6BH11	6	D	6	D	10
	6	D	6	F	10
	6	D	6	H	10
6BJ3	6	A	4	K	10
6BJ5	6	C	6	A	4
*6BJ6	6	D	6	A	4
(Disregard Shorts except H-K)					
6BJ7	6	F	6	B	3
	6	F	6	F	3
	6	F	6	H	3
6BJ8	6	D	6	H	3
	6	E	6	F	3
	6	E	6	A	3
*6BK4	6	G	3	E	1
(Disregard Shorts except H-K)					
6BK5	6	C	8	C	3
6BK6	6	F	6	A	4
	6	G	6	E	4
	6	G	6	F	4
6BK7	6	E	6	B	3
	6	E	6	G	3
6BK8	6	E	2	J	3
6BKT11	6	G	9	A	10
	6	G	9	G	10
	6	G	9	J	10
6BL4	6	A	2	E	2
6BL7	6	C	6	A	2
	6	C	6	D	2
6BL8	6	D	6	B	3
	6	D	6	J	3
6BM5	6	C	8	A	4
6BM8	6	C	6	C	3
	6	F	6	A	3
*6BN4	6	E	2	G	4

(Normal Short A, F)

TUBE	A	B	C	D	Skt
6BN5	6	C	3	B	3
6BN6	6	H	6	E	4
(Emission and Short Test)					
	6	H	6	B	4
(Grid Leakage Test)					
6BN7	6	C	6	G	3
	6	F	6	B	3
6BN8	6	D	6	A	3
	6	D	6	F	3
	6	E	6	H	3
6BN11	6	E	6	C	10
	6	E	6	G	10
*6BQ5	6	C	1	B	3
(Permissible Short F, H and one other Pin)					
6BQ6	6	A	6	E	1
6BQ7	6	E	6	B	3
	6	E	6	G	3
6BR3	6	A	1	J	8
(Disregard Shorts except H-K)					
6BR7	6	F	1	B	3
6BR8	6	D	6	J	3
	6	D	6	A	3
*6BS3	6	A	8	B	5
(Disregard Shorts except H-K)					
6BS5	6	C	1	B	3
6BS7	6	G	1	K	3
6BS8	6	E	6	B	3
	6	E	6	G	3
6BT6	6	F	6	A	4
	6	G	6	C	4
	6	G	6	F	4
6BT8	6	D	6	H	3
	6	G	6	B	3
	6	G	6	A	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*6BU4	6	G	3	E	1	6BY5	6	A	3	D	1
(Disregard All Shorts except H-K)						6BY6	6	A	3	E	1
6BU5	6	G	2	D	2	6BY7	6	D	6	A	4
6BU6	6	E	6	A	4	6BY8	6	D	3	B	3
	6	G	6	C	4		6	D	6	A	3
	6	G	6	F	4		6	F	6	F	3
6BU8	6	D	6	G	3	6BY11	6	B	6	C	10
6BV7	6	E	8	H	3		6	G	6	H	10
	6	G	8	F	3	*6BZ3	6	A	4	K	10
	6	G	8	A	3	(Disregard Shorts except H-K)					
6BV8	6	E	6	B	3	6BZ6	6	D	6	A	4
	6	E	6	J	3	6BZ7	6	E	6	B	3
	6	E	6	F	3		6	E	6	G	3
6BV11	6	F	6	F	10	6BZ8	6	E	6	B	3
	6	F	6	G	10		6	E	6	G	3
*6BW3	6	A	4	K	10	6C4	6	E	1	F	4
(Disregard Shorts except H-K)						6C5	6	E	6	E	1
6BW4	6	B	6	A	3	6C8	6	F	6	E	1
	6	B	6	G	3		6	F	6	K	1
*6BW6	6	C	1	B	3	6C9	6	E	6	A	3
* (Permissible Short F and one other Pin)							6	E	6	G	3
6BW7	6	D	3	B	3	6C10	6	F	9	A	10
6BW8	6	E	6	F	3		6	F	9	G	10
	6	F	6	C	3		6	F	9	J	10
	6	F	6	A	3	6C12	6	E	6	B	3
6BW11	6	D	6	A	10		6	E	6	J	3
	6	D	6	C	10	6CA4	6	A	7	A	8
6BX4	6	A	6	A	4		6	A	7	G	8
	6	A	6	F	4	6CA5	6	C	5	B	4
6BX6	6	D	1	B	3	6CA7	6	A	6	E	1
6BX7	6	C	6	A	2	6CA11	6	E	6	C	10
	6	C	6	D	2		6	E	6	F	10
6BX8	6	E	6	B	3		6	C	6	K	10
	6	E	6	G	3	*6CB5	6	A	5	D	1

(Normal Short A, C, F, H)

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6CB6	6	D	6	A	4	*6CL5	6	A	5	D	1
6CB11	6	D	6	C	10	(Normal Short A, C, F, H)					
	6	C	6	A	10	*6CL6	6	C	10	B	3
6CD3	6	A	4	K	10	(Normal Short C, H)					
6CD6	6	A	6	E	1	6CL8	6	D	6	A	3
*6CE3	6	A	4	K	10		6	D	6	J	3
(Disregard All Shorts except H-K)						6CM3	6	A	2	O	5
6CE5	6	E	2	A	4	6CM4	6	E	3	F	8
6CF6	6	D	6	A	4	*6CM5	6	A	3	E	1
6CF8	6	F	6	J	3	(Permissible Short A and one other Pin)					
*6CG3	6	A	4	K	10	6CM6	6	C	7	C	3
(Disregard Shorts except H-K)						6CM7	6	D	2	G	3
6CG6	6	E	6	A	4		6	D	2	H	3
6CG7	6	E	6	B	3	6CM8	6	E	6	B	3
	6	E	6	G	3		6	F	6	J	3
6CG8	6	E	3	A	3	6CN6	6	C	6	E	1
	6	E	3	J	3	6CN7	6	F	10	A	3
*6CH3	6	A	2	G	5		6	F	10	B	3
(Disregard All Shorts except H-K)							6	F	10	G	3
*6CH6	6	C	1	B	3	6CQ4	6	A	2	E	2
(Permissible Shorts F, G and one other Pin)						6CQ6	6	E	6	A	4
6CH7	6	E	9	B	3	6CQ8	6	D	6	B	3
	6	E	9	G	3		6	D	6	J	3
6CH8	6	E	6	G	3	*6CR5	6	C	9	C	3
	6	E	6	H	3	(Normal Short A, B, F, G)					
6CJ3	6	A	8	B	5	6CR6	6	E	6	G	4
*6CJ6	6	C	1	B	3		6	G	6	B	4
(Permissible Shorts F, G and H or J)						*6CR8	6	D	6	B	3
*6CK3	6	A	2	G	5		6	D	6	J	3
(Disregard Shorts except H-K)						(Permissible Short H Only)					
6CK4	6	C	3	A	1	*6CS5	6	C	7	C	3
6CK6	6	C	6	B	3	(Permissible Short H and one other Pin)					
*6CL3	6	A	2	G	5	6CS6	6	D	6	A	4
(Disregard Shorts except H-K)											

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6CS7	6	C	2	C	3	6DA7	6	C	2	C	3
	6	F	2	G	3		6	E	2	G	3
6CS8	6	D	6	B	3	*6DB5	6	C	7	C	3
	6	E	6	J	3	(Normal Short B, G; Permissible Short H and one other Pin)					
*6CT3	6	A	2	F	3	6DB6	6	E	6	A	4
(Disregard Shorts except H-K)						6DC6	6	E	6	A	4
6CU5	6	C	5	B	4	6DC8	6	D	6	B	3
6CU6	6	A	6	E	1		6	G	6	G	3
*6CU8	6	E	6	G	3		6	G	6	H	3
	6	E	6	H	3	6DE4	6	A	2	E	2
(Permissible Short A Only)						6DE6	6	D	6	A	4
6CW4	6	F	6	D	6	6DE7	6	C	3	B	3
*6CW5	6	C	1	B	3		6	E	3	G	3
(Permissible Short F or H, and one other Pin)						6DF12	6	D	6	B	3
6CW7	6	D	8	F	3		6	G	6	G	3
	6	D	8	B	3		6	G	6	H	3
6CX7	6	E	9	B	3	6DG6	6	C	6	E	1
	6	E	9	G	3	*6DG7	6	D	1	B	3
6CX8	6	C	6	G	3	(Permissible Short F and one other Pin)					
	6	E	6	B	3	6DJ8	6	D	6	B	3
6CY5	6	E	2	A	4		6	D	6	G	3
6CY7	6	C	2	C	3	6DK6	6	D	6	A	4
	6	E	2	G	3	*6DL4	6	H	1	H	3
*6CZ5	6	C	7	C	3	(Normal Shorts A, C, F, G, J Emission and Shorts Test Only)					
(Permissible Short H and one other Pin)						6DL5	6	C	8	A	4
6D4	6	F	6	A	4	6DM4	6	A	2	E	2
6D5	6	C	6	E	1	6DM8	6	E	6	F	5
6D8	6	E	6	E	1		6	E	6	H	5
6D10	6	E	9	A	10		6	E	6	J	5
	6	E	9	G	10	6DN6	6	A	6	E	1
	6	E	9	J	10	6DN7	6	C	6	A	2
6DA4	6	A	2	E	2		6	F	6	D	2
6DA6	6	D	1	B	3						

TUBE	A	B	C	D	Skt
6DQ4	6	A	2	E	2
*6DQ5	6	A	5	A	1
(Normal Shorts C, D, E, H)					
6DQ6	6	A	6	E	1
6DR4	6	F	1	F	4
*6DR6	6	D	1	B	3
(Permissible Shorts F, G and one other Pin)					
6DR7	6	C	3	B	3
	6	E	3	G	3
6DR8	6	G	6	H	3
	6	G	6	B	3
	6	G	6	G	3
6DS4	6	G	6	D	6
6DS5	6	C	8	A	4
6DS8	6	F	6	B	3
	6	G	6	J	3
6DT4	6	A	1	E	2
*6DT5	6	C	7	C	3
(Permissible Short H and one other Pin)					
6DT6	6	E	6	A	4
6DT8	6	E	6	B	3
	6	E	6	G	3
*6DW4	6	A	8	B	5
(Disregard Shorts except H-K)					
6DW5	6	C	7	C	3
*6DX4	6	D	7	B	4
(Normal Shorts A, G)					
6DX8	6	D	6	H	3
	6	F	6	A	3
*6DY4	6	D	7	B	4
(Normal Shorts A, G)					
6DY5	6	B	1	B	3
6DY7	6	C	6	A	1
	6	C	6	E	1

TUBE	A	B	C	D	Skt
*6DZ4	6	D	7	B	4
(Normal Shorts A, G)					
6DZ7	6	C	6	A	1
	6	C	6	E	1
6DZ8	6	C	6	C	3
	6	F	6	A	3
6E8	6	D	6	K	1
6EA5	6	E	8	A	4
*6EA4	6	G	2	F	10
(Disregard Shorts except H-K)					
6EA7	6	D	6	A	2
	6	F	6	D	2
6EA8	6	D	6	B	3
	6	D	6	J	3
6EB5	6	F	6	B	4
	6	F	6	G	4
6EB8	6	C	6	G	3
	6	F	6	B	3
6EC7	6	D	3	A	3
+*6ED4	6	G	2	H	12
(Disregard Shorts except H-K)					
*6EF4	6	H	6	F	10
(Disregard Shorts except H-K)					
6EF6	6	C	6	E	1
6EH5	6	C	5	B	4
6EH7	6	D	3	B	3
6EH8	6	D	1	B	3
	6	D	1	G	3
6EJ4	6	H	6	F	10
6EJ7	6	D	3	B	3
*6EL4	6	J	3	E	1
(Disregard Shorts except H-K)					
6EL7	6	D	1	B	3
6EM5	6	C	7	C	8

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6EM7	6	D	6	A	2	6F6	6	B	6	E	1
	6	F	6	D	2	6F8	6	E	6	K	1
6EQ7	6	E	6	B	3		6	E	6	E	1
	6	G	6	H	3	6F10	6	D	6	D	1
6ER5	6	E	8	B	4	6F12	6	D	6	A	4
6ES5	6	E	8	B	4	6F19	6	D	3	B	3
6ES6	6	D	6	A	4	6F21	6	E	6	A	4
6ES8	6	D	6	B	3	6F22	6	F	2	J	3
	6	D	6	G	3	6F26	6	D	3	B	3
6ET6	6	D	6	A	4	6F29	6	D	3	B	3
6ET7	6	D	6	G	3	6F30	6	D	3	B	3
	6	G	6	C	3	6F31	6	D	6	A	4
	6	G	6	B	3	6F32	6	E	2	A	4
6EU7	6	G	6	E	13	6F35	6	G	2	A	4
	6	G	6	H	13	6F36	6	D	6	A	4
(See back of book for Mighty Mites not having socket #13)						6FA7	6	F	6	G	3
6EU8	6	D	6	B	3		6	G	6	C	3
	6	D	6	G	3	6FB8	6	H	6	A	3
(See Magnaval Note on Page B)							6	H	6	B	3
6EV5	6	E	8	A	4		6	H	6	C	3
6EV7	6	E	6	B	3		6	H	6	F	3
	6	E	6	G	3		6	H	6	G	3
6EV8	6	D	6	A	3		6	H	6	H	3
	6	D	6	J	3	6FC7	6	D	8	B	3
6EW6	6	D	6	A	4		6	D	8	F	3
6EW7	6	C	3	G	3	6FD6	6	F	6	A	4
	6	F	3	B	3	6FD7	6	C	2	C	3
6EX6	6	A	6	E	1		6	F	2	G	3
6EY6	6	C	6	E	1	6FD12	6	D	6	B	3
6EZ5	6	C	6	E	1		6	G	6	G	3
6EZ8	6	E	6	B	3		6	G	6	H	3
	6	E	6	G	3	6FE5	6	C	6	E	1
	6	E	6	J	3	6FG5	6	D	2	A	4
6F5	6	F	6	K	1						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6FG7	6	D	3	J	3	6G6	6	D	6	E	1
	6	E	3	A	3	6G11	6	C	5	H	10
6FH5	6	E	8	B	4		6	D	5	C	10
6FH6	6	A	6	E	1	6GA7	6	A	2	A	10
*6FH8	6	E	6	B	3		6	A	2	D	10
	6	E	6	F	3	6GA8	6	D	6	B	3
(Normal Short H-K)							6	D	6	G	3
6FJ7	6	E	7	K	10	6G-B3A	6	A	3	E	1
	6	A	7	C	10	†*6GB5	6	A	2	A	12
6FM7	6	C	9	C	10	(Normal Shorts C, F, G, H)					
	6	E	9	K	10	6G-B6	6	A	6	E	1
6FM8	6	F	6	B	3	6G-B7	6	A	3	E	1
	6	F	6	H	3	*6GC5	6	C	7	C	3
*6FN5	6	A	4	E	1	(Normal Shorts A, H)					
(Normal Short A, C, F, H)						6GC6	6	A	4	E	1
6FQ5	6	D	1	B	4	6GD7	6	D	3	A	4
6FQ7	6	D	6	B	3		6	D	3	J	4
	6	D	6	G	3	*6GE5	6	A	1	C	10
6FR7	6	C	3	B	3	(Normal Short D and K)					
	6	F	3	G	3	6GE8	6	D	6	C	3
6FS5	6	D	2	A	4		6	F	6	H	3
6FV6	6	E	6	A	4	*6GF5	6	A	1	C	10
6FV8	6	D	6	A	3	(Normal Short D and K)					
	6	D	6	J	3	6GF7	6	C	6	B	5
6FW5	6	A	6	A	1		6	G	6	J	5
6FW8	6	E	6	B	3	6GH8	6	D	6	B	3
	6	E	6	G	3		6	D	6	J	3
6FY5	6	E	1	B	4	*6GJ5	6	A	7	B	5
6FY7	6	C	9	C	10	(Normal Short A, G)					
	6	F	9	K	10	6GJ7	6	D	3	B	3
6FX4	6	A	6	A	4		6	E	3	J	3
	6	A	6	F	4	6GJ8	6	E	6	B	3
6FY8	6	E	6	C	3		6	E	6	J	3
	6	F	6	A	3	6GK5	6	E	8	B	4
						6GK6	6	C	3	B	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6GK7	6	F	3	B	3	6GX7	6	D	3	B	3
6G-K17	6	A	2	E	2		6	D	3	J	3
6GL7	6	C	6	D	2	*6GY5	6	A	5	J	10
	6	E	6	A	2	(Normal Shorts A, C, D, G, K)					
(See Magnoval Note on Page B)						6GY6	6	E	6	A	4
6GM5	6	C	3	F	8	*6GY8	6	E	6	A	3
6GM6	6	D	6	A	4		6	E	6	C	3
6GM8	6	E	6	B	3		6	G	6	F	3
	6	E	6	G	3	(Normal Short H-K)					
6GN6	6	E	6	A	4	6GZ5	6	C	5	B	4
	6	E	6	G	4	6H4	6	F	6	D	1
6GN8	6	C	6	G	3	6H6	6	E	6	C	1
	6	G	6	B	3		6	E	6	E	1
6GQ7	6	E	3	B	3	6H8	6	D	6	K	1
	6	E	3	F	3		6	G	6	E	1
	6	E	3	H	3		6	G	6	D	1
6GS7	6	E	3	A	3	6HA5	6	E	2	A	4
	6	E	3	J	3	*6HA6	6	C	3	B	3
6GS8	6	D	6	G	3	(Normal Short F, G)					
*6GT5	6	A	7	B	5	*6HB5	6	A	3	A	10
(Normal Short A, G)						(Normal Shorts D, K)					
6GU5	6	D	2	A	4	*6HB6	6	C	3	B	3
6GU7	6	D	6	B	3	(Normal Shorts E, H)					
	6	D	6	G	3	6HB7	6	D	3	B	3
*6GV5	6	A	5	J	10		6	D	3	J	3
(Normal Shorts A, C, D, G, K)						6HC8	6	C	6	C	3
6GV7	6	E	7	G	3		6	F	6	A	3
	6	D	7	J	3	*6HD5	6	A	1	C	10
6GV8	6	C	6	J	3	(Normal Shorts D, E, J, K)					
	6	E	6	B	3	6HD7	6	F	3	B	3
6GW5	6	D	7	B	4		6	F	3	J	3
6GW6	6	A	6	E	1	*6HE5	6	C	2	J	10
6GW8	6	C	6	H	3	(Normal Shorts A, C, D, K)					
	6	G	6	A	3	6HE7	6	A	11	B	10
6GX6	6	E	6	A	4		6	A	11	J	10

TUBE	A	B	C	D	Skt
*6HF5	6	A	5	J	10
(Normal Shorts A, C, D, F, H, K)					
6HF8	6	D	6	G	3
	6	F	6	B	3
6HG5	6	C	8	A	4
6HG8	6	D	3	B	3
	6	D	3	F	3
*6HJ5	6	A	1	C	10
(Normal Shorts D, E, J, K)					
6HJ7	6	F	3	B	3
	6	F	3	J	3
6HJ8	6	D	6	B	3
	6	G	6	H	3
6HK5	6	E	2	A	4
6HK8	6	E	6	B	3
	6	E	6	G	3
*6HL5	6	A	1	B	3
(Disregard Shorts on F, H, and one other Pin)					
6HL8	6	D	6	B	3
	6	D	6	J	3
6HM5	6	D	2	A	4
6HM6	6	D	1	B	3
6HQ5	6	E	2	A	4
6HQ6	6	D	6	A	4
6HR5	6	A	8	A	4
6HR6	6	D	6	A	4
*6HS5	6	A	1	B	10
(Normal Shorts C, E, F, H, J, K)					
6HS6	6	E	6	A	4
*6HT5	6	J	3	F	10
(Disregard Shorts except H-K)					
6HT6	6	D	1	B	3
6HS8	6	D	6	G	3
6HU8	6	C	6	B	3
	6	C	6	F	3

TUBE	A	B	C	D	Skt
*6HV5	6	A	1	B	10
(Normal Shorts C, E, F, H, J, K)					
6HW8	6	E	6	F	3
6HZ6	6	F	6	A	4
6HZ8	6	D	6	G	3
	6	E	6	B	3
*6J4	6	H	1	G	4
(Emission and Short Test only; Normal Short A, F)					
6J5	6	E	6	E	1
6J6	6	E	6	E	4
	6	E	6	F	4
6J7	6	F	6	K	1
6J8	6	F	6	E	1
	6	F	6	K	1
6J9	6	F	6	G	3
	6	F	6	J	3
	6	F	6	B	3
6J10	6	C	6	A	10
	6	H	6	F	10
6J11	6	D	6	E	10
	6	D	6	A	10
6JA8	6	D	6	G	3
	6	F	6	B	3
*6JB6	6	A	7	B	5
(Normal Shorts A, G)					
6JB8	6	D	6	B	3
	6	F	6	G	3
6JC6	6	D	1	B	3
6JC8	6	E	1	H	3
	6	D	1	B	3
6JD6	6	D	1	B	3
*6JE6	6	A	7	B	5
(Normal Shorts A, G)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6JE8	6	F	6	B	3	6JV8	6	D	6	G	3
	6	D	6	G	3		6	G	6	B	3
*6JF6	6	A	7	B	5	6JW6	6	C	7	B	3
(Normal Shorts A, G)						6JW8	6	D	6	J	3
*6JG6	6	A	7	B	5		6	C	6	B	3
(Normal Shorts A, G)						6JX8	6	E	6	B	3
6JH6	6	D	6	A	4		6	E	6	J	3
6JH8	6	D	6	F	3	6JY8	6	C	6	G	3
6JK6	6	D	6	A	4		6	D	6	B	3
6JK8	6	E	6	B	3	*6JZ6	6	A	8	E	10
	6	E	6	G	3	(Normal Shorts D, K)					
6JL6	6	D	6	A	4	6JZ8	6	C	7	G	10
6JL8	6	C	6	G	3		6	E	7	K	10
	6	E	6	B	3	6K5	6	F	6	K	1
*6JM6	6	A	9	E	10	6K6	6	B	6	E	1
(Normal Shorts D, J, K)						6K7	6	E	6	K	1
6JN6	6	A	4	A	10	6K8	6	E	6	E	1
6JN8	6	D	6	A	3	6K11	6	F	6	A	10
	6	D	6	J	3		6	F	6	G	10
6JQ6	6	A	8	H	3		6	D	6	J	10
	6	G	8	F	3	6KA8	6	E	6	F	3
6JR6	6	A	1	B	5		6	F	6	B	3
*6JS6	6	A	10	E	10	*6KD6	6	A	10	E	10
(Normal Shorts A, C, D, K)						(Normal Shorts A, C, D, K)					
*6JT6	6	A	7	B	5	6KD8	6	D	6	B	3
(Normal Shorts A, G)							6	D	6	J	3
6JT8	6	D	6	G	3	*6KE6	6	A	10	E	10
	6	F	6	B	3	(Normal Shorts A, D, J, K)					
*6JU6	6	A	7	B	5	6KE8	6	D	6	J	3
(Normal Shorts A, G)							6	E	6	B	3
*6JU8	6	E	6	A	3	6KF8	6	D	6	G	3
	6	E	6	G	3	+*6KG6	6	A	1	H	12
	6	E	1	B	3	(Normal Shorts B, C, F, G)					
	6	E	8	H	3	6KH8	6	C	6	B	3
(Normal Shorts B, H)							6	C	6	F	3

TUBE	A	B	C	D	Skt
6KL8	6	D	6	B	3
	6	F	6	H	3
(†See Magnoval Note on Page B)					
*6KM6	6	A	7	B	5
(Normal Shorts A, G)					
6KM8	6	F	6	G	3
	6	H	6	C	3
*6KN6	3	A	10	E	10
(Normal Shorts A, C, D, G, K, H-K)					
6KN8	6	D	6	B	3
	6	D	6	G	3
6KR8	6	D	6	B	3
	6	C	6	G	3
6KS6	6	H	6	E	4
(Emission and Shorts Test)					
	6	H	6	B	4
(Grid Leakage Test)					
6KS8	6	F	6	B	3
	6	C	6	G	3
6KT6	6	D	3	B	3
6KT8	6	D	6	G	3
	6	G	6	B	3
6KU8	6	D	6	G	3
	6	G	6	C	3
	6	G	6	B	3
*6KV6	6	A	1	B	5
(Normal Shorts C, F, G, H)					
6KV8	6	C	6	G	3
	6	F	6	B	3
†6KW6	6	B	9	A	12
6KX6	6	G	6	A	3
	6	G	6	K	3
6KY6	6	C	3	B	3
6KY8	6	C	6	B	5
	6	G	6	J	5

TUBE	A	B	C	D	Skt
6KZ8	6	D	6	B	3
	6	D	6	J	3
(†See Magnoval Note on Page B)					
6L5	6	F	6	E	1
6L6	6	C	6	E	1
6L7	6	F	6	K	1
6L10	6	C	6	D	1
6L12	6	D	6	B	3
	6	D	6	G	3
6L13	12	F	10	B	3
	12	F	10	G	3
6L31	6	C	8	A	4
*6L34	6	E	7	A	4
(Normal Shorts B, E)					
*6L40	6	C	1	B	3
(Permissible Short F and H one other Pin)					
*6L43	6	C	1	B	3
(Normal Shorts C, H)					
*6LB6	6	A	10	E	10
(Normal Shorts A, C, D, K)					
*6LB8	6	D	6	B	3
	6	D	6	G	3
(Normal Shorts C, H)					
6LC6	6	J	3	E	2
6LC8	6	E	6	F	3
	6	F	6	B	3
6LD6	6	C	7	B	5
6LD12	6	F	6	H	3
	6	G	6	F	3
	6	G	6	B	3
	6	G	6	A	3
6LD13	6	F	6	H	3
	6	G	6	F	3
	6	G	6	B	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6LE8	6	D	6	J	3	*6LX8	6	D	6	J	3
*6LF6	6	A	10	E	10	6LY8	6	C	6	B	3
(Normal Shorts A, C, D, K)						6LY8	6	F	6	B	3
6LF8	6	D	6	G	3	6LY8	6	C	6	G	3
6LF8	6	G	6	B	3	*6M5	6	C	7	B	3
*6LG6	6	A	5	J	10	(Permissible Short H and one other Pin)					
(Normal Shorts A, C, D, K)						6M6	6	F	6	E	1
*6LH6	6	H	6	E	1	6M7	6	D	6	K	1
(Normal Shorts A, C, D, H)						6M8	6	D	6	K	1
6LJ6	6	H	6	E	1	6M8	6	F	6	E	1
6LJ8	6	D	3	A	3	6M8	6	G	6	H	1
6LJ8	6	D	3	J	3	6M11	6	D	6	B	10
6LM8	6	D	6	B	3	6M11	6	E	6	E	10
6LM8	6	D	6	J	3	6M11	6	E	6	H	10
6LN8	6	D	6	B	3	6MB8	6	D	6	A	3
6LN8	6	D	6	J	3	6MB8	6	E	6	J	3
*6LQ6	6	A	2	F	5	6MD8	6	D	6	F	5
(Normal Shorts A, G)						6MD8	6	D	6	J	5
6LQ8	6	D	6	B	3	6MD8	6	D	6	H	5
6LQ8	6	D	6	G	3	6ME8	6	D	6	F	3
*6LR6	6	A	10	E	10	6MF8	6	A	8	F	10
(Normal Shorts A, C, D, K)						6MF8	6	E	8	K	10
6LR8	6	C	6	B	5	6MG8	6	D	6	J	3
6LR8	6	D	6	J	5	6MG8	6	E	6	B	3
*6LT8	6	E	6	J	3	*6M-H1	6	G	1	G	4
6LT8	6	C	6	F	3	(Emission and Short Test Only)					
6LT8	6	C	6	H	3	Normal Shorts E, F)					
(Normal Shorts A Only)						6M-HH3	6	E	6	E	4
*6LU8	6	B	8	F	10	6M-HH3	6	E	6	F	4
(Normal Shorts F and G)						6MJ8	6	D	6	A	10
6LU8	6	E	8	K	10	6MJ8	6	D	6	H	10
*6LV6	6	A	10	E	10	6MJ8	6	D	6	K	10
(Normal Shorts A, C, D, K)						6MK8	6	E	6	G	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6ML8	6	D	6	F	3	6PL12	8	C	6	C	3
	6	D	6	H	3		8	F	6	A	3
	6	D	6	J	3	*6P-P22	6	D	2	J	3
6MN8	6	D	6	A	10	(Normal Shorts C, H)					
	6	D	6	H	10	6Q4	6	G	8	A	8
	6	D	6	K	10	6Q5	6	F	6	E	1
6M-P20	6	C	6	A	4	6Q6	6	F	6	K	1
6MQ8	6	E	6	B	3		6	G	6	E	1
	6	D	6	J	3	6Q7	6	F	6	K	1
6MU8	6	C	6	B	3		6	G	6	E	1
	6	E	6	J	3		6	G	6	D	1
*6N3	6	A	2	J	3	6Q11	6	D	6	J	10
(Disregard Shorts)							6	F	6	G	10
*6N4	6	D	8	A	4		6	F	6	A	10
(Normal Short B, F)						*6QL6	6	B	1	J	3
6N7	6	E	6	D	1	(Normal Shorts B, C, G, H)					
	6	E	6	E	1	*6R3	6	A	2	J	3
6N8	6	F	6	B	3	(Disregard Shorts except H-K)					
	6	G	6	G	3	6R4	6	C	6	A	3
	6	G	6	H	3	6R6	6	E	6	K	1
6N-H10	6	G	6	D	6	6R7	6	E	6	K	1
6NK7	6	F	6	K	1		6	G	6	E	1
6N-L7	6	F	6	D	6		6	G	6	D	1
6P5	6	F	6	E	1	6R8	6	E	6	H	3
*6P7	6	F	6	K	1		6	G	6	F	3
(Normal Short C)							6	G	6	B	3
6P8	6	E	6	K	1		6	G	6	A	3
	6	F	6	E	1	6R-HH2	6	E	6	B	3
6P9	6	C	8	A	4		6	E	6	G	3
*6P15	6	C	1	B	3	6R-HH8	6	D	6	B	3
(Permissible Shorts F, H and one other Pin)							6	D	6	G	3
6P17	6	C	6	A	4	*6R-K19	6	A	2	J	3
						(Disregard Shorts except H-K)					
						6R-P10 (See Last Page)					
						6R-P15	6	A	2	A	3

TUBE	A	B	C	D	Skt
*6R-P22	6	A	10	B	3
(Normal Shorts C, H)					
6R-R8	(See Last Page)				
*6S2	6	H	1	K	8
(Disregard Shorts)					
*6S4	6	C	3	F	3
(Disregard Shorts except H-K)					
6S6	6	D	6	K	1
6S7	6	E	6	K	1
6S8	6	F	6	K	2
	6	G	6	D	2
	6	G	6	C	2
	6	G	6	A	2
6SA7	6	D	6	E	1
6SB7	6	D	6	E	1
6SC7	6	F	6	C	2
	6	F	6	D	2
6SD7	6	D	6	D	1
6SE7	6	F	6	D	1
6SF5	6	F	6	C	2
6SF7	6	D	6	B	2
	6	G	6	E	2
6SG7	6	D	5	D	1
6SH7	6	D	5	D	1
6SH8	6	E	6	G	3
6SJ7	6	E	6	D	1
6SK7	6	D	6	D	1
6SL7	6	F	6	A	2
	6	F	6	D	2
6SN7	6	E	6	A	2
	6	E	6	D	2
6SQ7	6	F	6	B	2
	6	G	6	D	2
	6	G	6	E	2

TUBE	A	B	C	D	Skt
6SR7	6	E	6	B	2
	6	G	6	D	2
	6	G	6	E	2
6SS7	6	E	6	D	1
6ST7	6	F	6	B	2
	6	G	6	D	2
	6	G	6	E	2
6SU7	6	F	6	A	2
	6	F	6	D	2
6SV7	6	F	6	B	2
	6	G	6	E	2
6SZ7	6	F	6	B	2
	6	G	6	D	2
	6	G	6	E	2
*6T4	6	D	7	B	4
(Normal Short A, G)					
6T6	6	E	6	K	1
6T7	6	F	6	K	1
	6	G	6	E	1
	6	G	6	D	1
6T8	6	F	6	H	3
	6	G	6	F	3
	6	G	6	B	3
	6	G	6	A	3
6T9	6	C	6	H	10
	6	D	6	D	10
6T10	6	D	6	C	10
	6	C	6	H	10
6TE8	6	F	6	E	1
	6	F	6	K	1
6TE9	6	F	6	G	3
	6	F	6	H	3
6TH8	6	F	6	E	1
	6	F	6	K	1

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*6U3	6	A	1	J	3	*6X2	6	J	6	K	5
(Disregard Shorts except H-K)						(Insert two tube leads into 3 and 4 of sockets #3. Touch cap lead to top lead on tube.)					
6U4	6	A	6	E	2	6X4	6	B	6	A	4
6U6	6	C	6	E	1	6X5	6	B	6	F	4
6U7	6	E	6	K	1	6X6	6	B	6	E	1
6U8	6	D	6	B	3	6X8	6	B	6	C	1
	6	D	6	J	3	6X9	6	F	6	C	1
6U9	6	D	6	C	11	6Y3	6	G	6	E	1
	6	D	6	K	11	6Y6	6	E	6	B	3
6U10	6	E	6	A	10	6Y7	6	E	6	G	3
	6	E	6	G	10	6Y9	6	D	6	C	11
	6	E	6	J	10	6Y10	6	E	6	K	11
6V3	6	A	3	G	8	6Y3	6	F	6	K	1
6V4	6	A	7	A	8	6Y6	6	C	6	E	1
	6	A	7	G	8	6Y7	6	F	6	D	1
6V5	6	C	6	E	2	6Y9	6	F	6	E	1
6V6	6	C	6	E	1	6Y10	6	C	6	H	11
6V7	6	F	6	K	1	6ZY5	6	D	6	A	11
	6	G	6	E	1	6Z7	6	C	6	C	10
	6	G	6	D	1	6ZY10	6	F	6	H	10
6V8	6	F	6	F	3	6Z10	6	A	6	C	1
	6	G	6	J	3	6Z10	6	A	6	E	1
	6	G	6	G	3	6Z10	6	F	6	D	1
	6	G	6	B	3	6Z10	6	F	6	E	1
6V9	6	D	6	H	11	6Z10	6	C	6	A	10
	6	E	6	C	11	6Z10	6	H	6	F	10
6W4	6	A	2	E	2	6Z10	6	E	5	F	9
6W5	6	B	6	C	1	6Z10	6	C	6	F	9
	6	B	6	E	1	6Z10	6	E	6	C	9
6W6	6	C	6	E	1	6Z10	6	E	6	F	9
6W7	6	F	6	K	1	6Z10	6	E	6	F	9
6W9	6	C	6	H	11	6Z10	6	E	6	F	9
	6	D	6	A	11	6Z10	6	E	6	D	9

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*7AB7	6	F	6	E	1	7E6	6	F	4	C	9
(Normal Shorts D, F, H)						7E7	6	G	4	E	9
7AD7	6	C	6	F	9	7ED7	6	G	4	F	9
7AF7	6	E	6	D	9	7EK7	6	E	6	F	9
	6	E	6	E	9	7ES8	6	G	6	D	9
7AG7	6	E	6	F	9		6	G	6	C	9
7AH7	6	E	6	F	9	7ED7	7	E	3	B	3
7AJ7	6	E	6	F	9	7EK7	7	E	8	B	3
7AK7	6	C	6	F	9		7	E	8	F	3
7AN7	7	E	8	B	3	7ES8	7	D	6	B	3
	7	E	8	F	3		7	D	6	G	3
7AU7	7	D	10	B	3	7EY6	7	C	6	E	1
	7	D	10	G	3	7F7	6	F	6	D	9
7B4	6	F	6	F	9		6	F	6	E	9
7B5	6	C	6	F	9	7F8	(See Last Page)				
7B6	6	F	4	C	9	7FC7	7	D	8	B	3
	6	G	4	E	9		7	D	8	F	3
	6	G	4	F	9	7G7	6	F	6	F	9
7B7	6	E	6	F	9	7G8	6	F	6	D	9
7B8	6	F	6	D	9		6	F	6	E	9
7C4	6	F	6	D	9	7GS7	7	E	3	A	3
7C5	6	C	6	F	9		7	E	3	J	3
7C6	6	F	4	C	9	7GV7	7	E	7	J	3
	6	G	4	E	9		7	D	7	G	3
	6	G	4	F	9	7H7	6	D	6	F	9
7C7	6	E	6	F	9	7HG8	7	D	3	B	3
7D7	6	D	6	F	9		7	D	3	F	3
	6	F	6	D	9	7J7	6	F	6	D	9
7D11	6	A	6	E	1		6	E	6	F	9
7DJ8	7	D	6	B	3	7K7	6	F	6	D	9
	7	D	6	G	3		6	G	6	E	9
*7E5	6	F	5	A	9	7KY6	6	G	6	F	9
(Disregard Shorts)						7KZ6	7	C	3	B	3
							7	C	3	B	3

TUBE	A	B	C	D	Skt
7L7	6	F	6	F	9
7M-P18	7	A	8	A	4
7N7	6	E	6	D	9
	6	E	6	E	9
7Q7	6	E	6	D	9
7R7	6	F	6	F	9
	6	G	6	D	9
	6	G	6	C	9
7S7	6	D	6	F	9
	6	E	6	D	9
7T7	6	E	6	F	9
7V7	6	E	6	F	9
7W7	6	D	4	F	9
7X6	6	B	6	C	9
	6	B	6	F	9
7X7	6	F	6	C	9
	6	G	6	E	9
	6	G	6	F	9
7Y4	6	B	4	C	9
	6	B	4	F	9
7Z4	6	B	4	C	9
	6	B	4	F	9
8A8	8	D	7	B	3
	8	E	7	J	3
8AC9	8	D	6	B	10
	8	D	2	C	10
	8	D	6	J	10
8AC10	8	E	6	A	10
	8	E	6	G	10
	8	E	6	J	10
8AG10	8	D	6	A	10
8AL9	8	E	9	E	10
	8	C	9	A	10

TUBE	A	B	C	D	Skt
8AR11	8	D	6	E	10
	8	D	6	K	10
8AU8	8	D	6	G	3
	8	E	6	B	3
8AV11	8	D	6	A	10
	8	D	6	G	10
	8	D	6	J	10
8AW8	8	D	6	G	3
	8	F	6	B	3
8B8	8	C	6	C	3
	8	F	6	A	3
8B10	8	E	6	C	10
	8	E	6	E	10
	8	F	6	H	10
	8	F	6	K	10
8BA8	8	D	6	G	3
	8	E	6	B	3
8BA11	8	D	6	D	10
	8	E	6	J	10
8BH8	8	D	6	G	3
	8	E	6	B	3
8BM11	8	C	6	F	10
	8	D	6	A	10
8BN8	8	D	6	A	3
	8	D	6	F	3
	8	E	6	H	3
8BN11	8	E	6	C	10
	8	E	6	G	10
*8BQ5	8	C	1	B	3
(Permissible Short F, H and one other Pin)					
8BQ7	8	E	6	B	3
	8	E	6	G	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
8BQ11	8	E	6	E	10	8ET7	8	D	6	G	3
	8	E	6	K	10		8	G	6	C	3
8BU11	8	D	6	D	10		8	G	6	B	3
	8	D	6	F	10	8FQ7	8	D	6	B	3
	8	D	6	H	10		8	E	6	G	3
8BV7	8	E	8	H	3	8GJ7	8	D	3	B	3
	8	G	8	F	3		8	E	3	J	3
	8	G	8	A	3	8GK6	8	C	3	B	3
8CB11	8	D	6	C	10	8GM6	8	D	6	A	4
	8	C	6	A	10	8GN8	8	C	6	G	3
8CG7	8	E	6	B	3		8	G	6	B	3
	8	E	6	G	3	8GU7	8	D	6	B	3
8CM7	8	D	2	G	3		8	D	6	G	3
	8	D	2	H	3	8GX7	8	D	3	B	3
8CN7	8	F	10	A	3		8	D	3	J	3
	8	F	10	B	3	*8HA6	8	C	3	B	3
	8	F	10	G	3		(Normal Shorts F, G)				
8CS7	8	C	2	C	3	8HG8	8	D	3	B	3
	8	F	2	G	3		8	D	3	F	3
*8CW5	8	C	1	B	3	8JE8	8	D	6	G	3
	(Permissible Short F, H and one other Pin)						8	F	6	B	3
8CX8	8	C	6	G	3	8JK8	8	E	6	B	3
	8	E	6	B	3		8	E	6	G	3
8CY7	8	C	2	C	3	8JL8	8	C	6	G	3
	8	E	2	G	3		8	E	6	B	3
8D8	8	G	2	J	3	8JT8	8	D	6	G	3
8DX8	8	D	6	H	3		8	F	6	B	3
	8	F	6	A	3	*8JU8	8	E	6	A	3
8EB8	8	C	6	G	3		8	E	6	G	3
	8	F	6	B	3		8	E	1	B	3
8EL8	8	D	6	J	3		8	E	8	H	3
8EM5	8	C	7	C	8		(Normal Shorts B, H)				
						8JV8	8	D	6	G	3
							8	G	6	B	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
8KA8	8	E	6	F	3	9AH9	9	E	5	B	10
	8	F	6	B	3		9	C	5	F	10
8KR8	8	D	6	B	3	9AK8	9	F	6	H	3
	8	B	6	G	3		9	G	6	F	3
8KS8	8	F	6	B	3		9	G	6	B	3
	8	C	6	G	3		9	G	6	A	3
8LC8	8	E	6	F	3	9AK10	9	E	6	A	10
	8	F	6	B	3		9	E	6	G	10
8LE8	8	D	6	J	3		9	E	6	J	10
8LN8	8	D	6	B	3	9AQ8	9	D	6	B	3
	8	D	6	J	3		9	D	6	G	3
8LS6	8	D	3	B	3	9AU7	9	D	10	B	3
*8LT8	8	C	6	F	3		9	D	10	G	3
	8	C	6	H	3	9BJ11	9	E	6	A	10
	8	E	6	J	3		9	E	6	F	10
(Normal Shorts A Only)						9BM5	9	C	8	A	4
8MU8	8	C	6	B	3	*9BR7	9	E	10	G	3
	8	E	6	J	3		9	E	10	F	3
8R-LP1	8	C	6	C	3		9	E	10	B	3
	8	F	6	A	3	(Normal Shorts F, G)					
8SN7	8	E	6	A	2	9BR8	9	D	6	J	3
	8	E	6	D	2		9	E	6	A	3
*8TL8	8	E	6	J	3	*9BW6	9	C	1	B	3
	8	C	6	F	3	(Permissible Short F and one other Pin)					
	8	C	6	H	3	9CG8	9	E	3	A	3
(Normal Shorts A Only)							9	E	3	J	3
8U9	8	D	6	C	11	9CL8	9	D	6	A	3
	8	D	6	K	11		9	D	6	J	3
8X9	8	D	6	C	11	9D6	9	F	6	A	4
	8	E	6	E	11	9D7	9	E	1	B	3
9A8	9	D	6	B	3	9DZ8	9	C	6	C	3
	9	D	6	J	3		9	F	6	A	3
9AB4	9	E	2	F	4	9EA8	9	D	6	J	3
							9	D	6	B	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
†*9ED4	9	G	2	H	12	*10BQ5	10	C	1	B	3
(Disregard Shorts except H-K)						(Permissible Short F, H and one other Pin)					
9EF6	9	C	6	E	1	10C8	10	D	6	H	3
9GH8	9	D	6	B	3		10	E	6	B	3
	9	D	6	J	3	10C14	19	E	6	B	3
9GV8	9	C	6	J	3		19	F	6	J	3
	9	E	6	B	3	*10CW5	10	C	1	B	3
9JC8	9	E	1	H	3	(Disregard Shorts on F, H, and one other Pin)					
	9	D	1	B	3	10DA7	10	C	2	C	3
(See Magnoval Note on Page B)							10	E	2	G	3
9JW8	9	D	6	J	3	10DE7	10	C	3	B	3
	9	C	6	B	3		10	E	3	G	3
9KC6	9	D	6	B	3	10DR7	10	C	3	B	3
9KX6	9	C	3	B	3		10	E	3	G	3
9KZ8	9	D	6	B	3	10DX8	10	D	6	H	3
	9	D	6	J	3		10	F	6	A	3
9LA6	9	C	3	B	3	10EB8	10	C	6	G	3
9M-P12	9	C	6	A	4		10	F	6	B	3
9MN8	9	D	6	A	10	10EG7	10	D	6	A	2
	9	D	6	H	10		10	E	6	D	2
	9	D	6	K	10	10EM7	10	D	6	A	2
9P9	9	C	8	A	4		10	F	6	D	2
9R-A6	9	C	2	G	3	10EW7	10	C	3	G	3
9R-AL1	9	C	3	B	3		10	F	3	B	3
	9	F	3	G	3	10FD7	10	C	3	G	3
9R-HR2	9	D	6	B	3		10	D	3	B	3
	9	D	6	J	3	10FD12	19	E	6	B	3
9U8	9	D	6	B	3		19	G	6	G	3
	9	D	6	J	3		19	G	6	H	3
9V9	9	D	6	H	11	10FH6	10	A	6	E	1
	9	E	6	C	11	10FR7	10	C	3	B	3
9X8	9	E	6	B	3		10	F	3	G	3
	9	E	6	G	3						
10AL11	10	C	6	H	10						
	10	D	6	C	10						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
10GF7	10	C	6	B	5	10LW8	10	F	6	B	3
	10	G	6	J	5		10	C	6	G	3
10GK6	10	C	3	B	3	10LY8	10	F	6	B	3
10GN8	10	C	6	G	3		10	C	6	G	3
	10	G	6	B	3	10LZ8	10	E	6	B	3
10HA6	10	C	3	B	3		10	D	6	G	3
(Normal Shorts F, G)						10PL12	50	C	6	C	3
10HF8	10	D	6	G	3		50	E	6	A	3
	10	F	6	B	3	10Z10	10	C	6	A	10
10J10	10	C	6	A	10		10	H	6	F	10
	10	H	6	F	10	11AC11	11	E	6	C	10
10JA8	10	D	6	G	3		11	E	6	F	10
	10	F	6	B	3		11	C	6	H	10
10JT8	10	D	6	G	3	11AR11	11	D	6	K	10
	10	F	6	B	3		11	D	6	E	10
10JY8	10	C	6	G	3	11BM8	11	C	6	C	3
	10	D	6	B	3		11	F	6	A	3
10KU8	10	D	6	G	3	11BQ11	11	E	6	E	10
	10	G	6	C	3		11	E	6	K	10
	10	G	6	B	3	11BT11	11	E	6	C	10
10KR8	10	C	6	G	3		11	E	6	E	10
	10	D	6	B	3		11	D	6	A	10
10LB8	10	D	6	B	3	11C5	11	C	5	B	4
	10	D	6	G	3	11CF11	11	C	6	E	10
10L14	26	E	6	B	3		11	E	6	A	10
	26	E	6	G	3		11	E	6	J	10
10LD12	28	F	6	H	3	11CY7	11	C	2	C	3
	28	G	6	F	3		11	E	2	G	3
	28	G	6	B	3	11D12	6	A	6	A	2
	28	G	6	A	3		6	A	6	D	2
10LD13	14	F	10	B	3	11DS5	11	C	8	A	4
	14	G	10	F	3	11E13	12	C	10	A	3
	14	G	10	H	3		12	C	10	C	3
10LE8	10	D	6	J	3						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*11LT8	11	E	6	J	3	12AE10	12	F	6	C	10
	11	C	6	F	3		12	C	6	H	10
	11	C	6	H	3	*12AF3	12	A	2	J	3
(Normal Shorts A Only)						(Disregard Shorts except H-K)					
11FY7	11	C	9	C	10	12AF6	12	F	6	A	4
	11	F	9	K	10	12AG6	12	F	6	A	4
*11HM7	11	C	7	B	3	12AG7	12	C	6	D	1
(Normal Shorts C, J)						12AH6	12	D	6	A	4
11JE8	11	F	6	B	3	12AH7	12	F	6	A	2
	11	D	6	G	3		12	F	6	E	2
11KV8	11	C	6	G	3	12AH8	12	F	10	B	3
	11	F	6	B	3		12	F	10	G	3
11MS8	11	B	6	B	3	12AJ6	12	F	6	A	4
	11	F	6	J	3		12	G	6	E	4
11LQ8	11	D	6	B	3		12	G	6	F	4
	11	D	6	G	3	12AJ7	12	F	6	B	3
11Y9	11	C	6	H	11		12	G	6	J	3
	11	D	6	A	11	12AJ8	12	E	6	B	3
1204	6	F	7	E	9		12	E	6	J	3
12A4	12	C	3	G	8	12AK7	12	C	6	D	1
12A6	12	C	6	E	1	12AL5	12	E	6	B	4
12A8	12	E	6	E	1		12	E	6	G	4
*12AB5	12	C	3	F	3	12AL8	12	E	6	C	3
(Normal Short A, H)							12	G	6	H	3
12AC6	12	F	6	A	4	12AL11	12	C	6	H	10
12AD5	12	F	8	B	3		12	E	6	C	10
12AD6	12	F	6	A	4	12AQ5	12	C	8	A	4
12AD7	12	F	10	B	3	12AS5	12	C	5	B	4
	12	F	10	G	3	12AT6	12	F	6	A	4
12AE6	12	F	6	A	4		12	G	6	E	4
	12	G	6	E	4		12	G	6	F	4
	12	G	6	F	4	12AT7	12	E	10	B	3
12AE7	12	F	10	B	3		12	E	10	G	3
	12	G	10	G	3	12AU6	12	D	6	A	4

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
12AU7	12	D	10	B	3	12BE3	12	A	4	K	10
	12	D	10	G	3	12BE6	12	D	6	A	4
12AU8	12	D	6	G	3	12BF6	12	F	6	A	4
	12	D	6	B	3		12	G	6	E	4
12AV5	12	A	6	A	1		12	G	6	F	4
12AV6	12	F	6	A	4	12BF11	12	C	6	H	10
	12	G	6	E	4		12	D	6	C	10
	12	G	6	F	4	12BH7	12	D	10	B	3
12AV7	12	D	10	B	3		12	D	10	G	3
	12	D	10	G	3	12BJ3	12	A	4	K	10
12AW6	12	E	6	A	4	12BK5	12	C	8	C	3
12AX3	12	A	11	D	10	12BK6	12	F	6	A	4
12AX4	12	A	2	E	2		12	G	6	E	4
12AX7	12	F	10	B	3		12	G	6	F	4
	12	F	10	G	3	(†See Magnoval Note on Page B)					
*12AY3	12	A	8	B	5	12BL6	12	F	6	A	4
(Disregard All Shorts except H-K)						12BM5	12	C	8	A	4
12AY7	12	F	10	B	3	*12BN6	12	H	6	E	4
	12	F	10	G	3	(Emission and Short Test)					
12AZ7	12	E	10	B	3		12	H	6	B	4
	12	E	10	G	3	(Grid Leakage Test)					
†*12B-B14	12	A	1	B	12	12BQ6	12	A	6	E	1
(Normal Shorts C, F, G, H)						*12BR3	12	A	1	J	8
12B3	12	A	6	G	8	(Disregard All Shorts except H-K)					
12B4	12	C	3	G	8	*12BR7	12	E	10	G	3
12B6	12	F	6	K	1		12	E	10	F	3
	12	G	6	E	1		12	E	10	B	3
12B7	12	E	6	F	9	(Normal Shorts F, G)					
12B8	12	E	6	K	1	*12BS3	12	A	8	B	5
	12	F	6	H	1	(Disregard All Shorts except H-K)					
12BA6	12	D	6	A	4	12BT3	12	A	4	K	10
12BA7	12	D	6	B	3	12BT6	12	F	6	A	4
12BD5	12	A	6	A	1		12	G	6	E	4
12BD6	12	D	6	A	4		12	G	6	F	4

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
12BU6	12	E	6	A	4	12CT8	12	D	6	H	3
	12	G	6	E	4		12	E	6	B	3
	12	G	6	F	4	12CU5	12	C	5	B	4
*12BV7	12	C	7	B	3	12CU6	12	A	6	E	1
(Normal Shorts C, J)						12CX6	12	F	6	A	4
12BV11	12	F	6	F	10	12CY6	12	F	6	A	4
	12	F	6	G	10	12D4	12	A	6	E	2
12BW4	12	B	6	A	3	12DA6	12	D	7	B	3
	12	B	6	G	3	*12DB5	12	C	7	C	3
12BX6	12	D	1	B	3	(Normal Short B, G; Permissible Short H and one other Pin)					
*12BY3	12	A	2	J	3	12DE8	12	F	6	C	3
(Disregard Shorts except H-K)							12	F	6	A	3
12BY7	12	C	7	B	3	12DF5	12	B	10	A	3
(Normal Shorts C, J)							12	B	10	F	3
12BZ6	12	D	6	A	4	12DF7	12	F	10	B	3
12BZ7	12	F	10	B	3		12	F	10	G	3
	12	F	10	G	3	12DJ8	12	D	6	B	3
12C5	12	C	5	B	4		12	D	6	G	3
12C8	12	E	6	K	1	*12DK5	12	F	10	B	3
	12	G	6	D	1	(Permissible Short F and one other Pin)					
	12	G	6	E	1	12DK6	12	D	6	A	4
12CA5	12	C	5	B	4	12DK7	12	E	9	A	3
*12CK3	12	A	2	G	5		12	G	9	F	3
(Disregard Shorts except H-K)							12	G	9	J	3
*12CL3	12	A	2	G	5	12DL8	12	C	6	C	3
(Disregard Shorts except H-K)							12	G	6	A	3
12CM6	12	C	7	C	3		12	G	6	J	3
12CN5	12	F	5	B	4	12DM4	12	A	2	E	2
*12CR5	12	C	9	C	3	12DM5	12	C	5	B	4
(Normal Short A, B, F, G)						12DM7	12	E	10	B	3
12CR6	12	E	6	G	4		12	E	10	G	3
	12	G	6	B	4						
*12CS5	12	C	7	C	3						
(Permissible Short H and one other Pin)											
12CS6	12	D	6	A	4						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
12DM8	12	D	6	F	5	12DY8	12	D	6	A	3
	12	D	6	H	5		12	F	6	J	3
	12	D	6	J	5	12DZ6	12	F	6	A	4
12DQ4	12	A	2	E	2	12DZ8	12	C	6	C	3
12DQ6	12	A	6	E	1		12	F	6	A	3
*12DQ7	12	C	7	B	3	12E5	12	F	6	E	1
(Normal Short C, J)						12E13	6	C	6	E	1
12DS7	12	D	6	C	3	12EA6	12	F	6	A	4
	12	G	6	A	3	12EC8	12	F	6	A	3
	12	G	6	J	3		12	F	6	J	3
*12DT5	12	C	7	C	3	12ED5	12	C	5	B	4
(Permissible Short H and one other Pin)						12EF6	12	C	6	E	1
12DT6	12	E	6	A	4	12EG6	12	F	6	A	4
12DT7	12	G	10	B	3	12EH5	12	C	5	B	4
	12	G	10	G	3	12EK6	12	E	6	A	4
12DT8	12	E	6	B	3	12EL6	12	F	6	A	4
	12	E	6	G	3		12	G	6	E	4
12DU7	12	D	9	A	3		12	G	6	F	4
	12	G	9	G	3	*12EM6	12	E	8	A	3
	12	G	9	J	3		12	G	8	J	3
12DV7	12	G	10	B	3	(Permissible Short H and one other Pin)					
	12	G	10	C	3	12EN6	12	C	6	E	1
	12	G	10	G	3	12EQ7	12	E	6	B	3
12DV8	12	D	6	C	3		12	G	6	H	3
	12	G	6	A	3	12EZ6	12	F	6	A	4
	12	G	6	J	3	12F5	12	F	6	K	1
*12DW4	12	A	8	B	5	12F8	12	F	6	H	3
(Disregard Shorts except H-K)							12	G	6	F	3
12DW5	12	C	7	C	3		12	G	6	A	3
12DW7	12	D	10	B	3	12FA6	12	F	6	A	4
	12	F	10	G	3	*12FB5	12	C	1	B	3
12DW8	12	E	6	B	3						
	12	F	6	G	3						
	12	F	6	J	3						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
12FK6	12	F	6	A	4	12G11	12	C	5	H	10
	12	G	6	E	4		12	D	5	C	10
	12	G	6	F	4	12GA6	12	F	6	A	4
12FM6	12	F	6	A	4	12G-B3	12	A	3	E	1
	12	G	6	E	4	12G-B7	12	A	3	E	1
	12	G	6	F	4	*12GC6	12	A	4	E	1
12FQ7	12	D	6	B	3	(Permissible Short A, F and one other Pin)					
	12	D	6	G	3	*12GE5	12	A	1	C	10
12FQ8	12	G	6	B	3	(Normal Short D and K)					
	12	G	6	G	3	*12GJ5	12	A	7	B	5
*12FR8	12	F	6	C	3	(Normal Shorts A, G)					
	12	G	6	A	3	12G-K17	12	A	6	E	2
	12	G	6	J	3	12GN6	12	E	6	A	4
(Normal Shorts H, K)							12	E	6	G	4
12FS5	12	D	2	A	4	*12GN7	12	D	7	B	3
12FT6	12	E	6	A	4	(Normal Shorts C, J)					
	12	G	6	E	4	*12GT5	12	A	7	B	5
	12	G	6	F	4	(Normal Short A, G)					
12FV7	12	D	10	B	3	*12GV5	12	A	5	J	10
	12	D	10	G	3	(Normal Shorts A, C, D, G, K)					
12FX5	12	C	5	B	4	12GW6	12	A	6	E	1
*12FX8	12	F	6	B	3	*12H4	12	E	2	F	4
	12	F	6	F	3	(Normal Short A, E)					
(Normal Shorts H, K)						12H6	12	F	6	C	1
12FY8	12	E	6	C	3		12	F	6	E	1
	12	F	6	A	3	12HE7	12	A	11	B	10
*12G4	12	E	5	F	4		12	A	11	J	10
(Permissible Short B and one other Pin)						*12HG7	12	C	7	B	3
12G7	12	F	6	K	1	(Normal Shorts C, J)					
	12	G	6	E	1	*12HL5	12	A	1	B	3
	12	G	6	D	1	(Disregard Shorts on F, H, and one other Pin)					
12G8	12	E	10	C	3	*12HL7	12	C	7	B	3
	12	E	10	H	3	(Normal Shorts C, J)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
12HU8	12	C	6	B	3	*12R-K19	12	A	10	B	3
	12	C	6	F	3	(Disregard Shorts)					
12J5	12	E	6	E	1	12R-LL3	12	E	10	B	3
12J7	12	F	6	K	1		12	E	10	G	3
12J8	12	D	6	A	3	12RLL5	12	D	6	B	3
	12	F	6	H	3		12	D	6	G	3
	12	F	6	J	3	12S8	12	F	6	K	2
*12JB6	12	A	7	B	5		12	G	6	D	2
(Normal Shorts A, G)							12	G	6	C	2
12JN6	12	A	4	A	10		12	G	6	A	2
12JN8	12	D	6	A	3	12SA7	12	D	6	E	1
	12	D	6	J	3	12SC7	12	F	6	C	2
12JQ6	12	A	8	H	3		12	F	6	D	2
	12	G	8	F	3	12SF5	12	F	6	C	2
*12JS6	12	A	10	E	10	12SF7	12	D	6	B	2
(Normal Shorts A, C, D, K)							12	G	6	E	2
*12JT6	12	A	7	B	5	12SG7	12	D	5	D	1
(Normal Shorts A, G)						12SH7	12	D	5	D	1
12JZ8	12	C	7	G	10	12SJ7	12	E	6	D	1
	12	E	7	K	10	12SK7	12	D	6	D	1
12K5	12	D	7	E	4	12SL7	12	F	6	A	2
12K7	12	E	6	K	1		12	F	6	D	2
12K8	12	E	6	E	1	12SN7	12	E	6	A	2
12KL8	12	D	6	B	3		12	E	6	D	2
	12	F	6	H	3	12SQ7	12	F	6	B	2
12L6	12	C	6	E	1		12	G	6	D	2
12MD8	12	D	6	F	5		12	G	6	E	2
	12	D	6	H	5	12SR7	12	E	6	B	2
	12	D	6	J	5		12	G	6	D	2
12NK7	12	F	6	K	1		12	G	6	E	2
12Q7	12	F	6	K	1	12SS7	12	E	6	D	1
	12	G	6	E	1	12ST7	12	E	6	B	2
	12	G	6	D	1		12	G	6	D	2
12R5	12	C	5	B	4		12	G	6	E	2

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
12SW7	12	E	6	B	2	13FR7	13	F	3	G	3
	12	G	6	D	2		13	C	3	B	3
	12	G	6	E	2	†*13GB5	13	A	2	A	12
12SX7	12	E	6	A	2	(Normal Shorts C, F, G, H)					
	12	E	6	D	2	13GC8	13	C	6	J	3
12SY7	12	D	6	E	1		13	E	6	B	3
12T10	12	C	6	H	10	13GF7	13	C	6	B	5
	12	D	6	C	10		13	G	6	J	5
12TE8	12	F	6	E	1	13J10	13	C	6	A	10
	12	F	6	K	1		13	H	6	F	10
12TE9	12	F	6	E	3	*13JZ6	13	A	8	E	10
	12	F	6	K	3	(Normal Shorts D, K)					
12U7	12	G	10	B	3	13JZ8	13	C	7	G	10
	12	G	10	G	3		13	E	7	K	10
12V6	12	C	6	E	1	13V10	13	F	6	C	10
12W6	12	C	6	E	1		13	C	6	H	10
12X4	12	B	6	A	4	13Z10	13	C	6	A	10
	12	B	6	F	4		13	H	6	F	10
*13CM5	13	A	3	E	1	14A4	14	E	5	F	9
(Permissible Short A and one other Pin)						14A5	14	C	6	F	9
13CW4	13	F	6	D	6	(†See Magnoval Note on Page B)					
13D3	13	G	10	G	3	14A7	14	E	6	F	9
	13	G	10	B	3	14AF7	14	E	6	D	9
13DE7	13	C	3	B	3		14	E	6	E	9
	13	E	3	G	3	14B6	14	F	4	C	9
13DR7	13	C	3	B	3		14	G	4	E	9
	13	E	3	G	3		14	G	4	F	9
13EC7	13	D	3	A	3	14B8	14	F	6	D	9
13EM7	13	D	6	A	2	14BL11	14	E	6	C	10
	13	F	6	D	2		14	E	6	E	10
13FD7	13	C	2	C	3		14	C	6	A	10
	13	F	2	G	3	14BR11	14	C	6	B	10
13FM7	13	C	9	C	10		14	E	6	H	10
	13	E	9	K	10		14	E	6	K	10
						14C5	14	C	6	F	9

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
14C7	14	E	6	F	9	14S7	14	D	6	F	9
14DA7	14	C	2	C	3		14	F	6	D	9
	14	E	2	G	3	14V7	14	E	6	F	9
14E6	14	F	4	C	9	14W7	14	D	4	F	9
	14	G	4	E	9	14X7	14	F	6	C	9
	14	G	4	F	9		14	G	6	E	9
14E7	14	E	6	F	9		14	G	6	F	9
	14	G	6	D	9	14Y4	14	B	4	C	9
	14	G	6	C	9		14	B	4	F	9
14F7	14	F	6	D	9	14Y7	14	D	6	B	3
	14	F	6	E	9		14	F	6	J	3
14G6	14	F	10	B	3	15A6	15	C	6	B	3
	10	G	10	F	3	15A8	15	F	6	C	1
	14	G	10	H	3		15	C	6	D	1
14GT8	14	F	6	B	3	15AB9	15	D	6	A	11
	14	F	6	F	3		15	D	6	G	11
	14	F	6	H	3	15AF11	15	C	6	A	10
14GW8	14	C	6	H	3		15	F	6	C	10
	14	G	6	A	3		15	F	6	F	10
14H7	14	D	6	F	9	15BD7	15	F	6	B	3
14J7	14	D	6	F	9		15	G	6	F	3
	14	F	6	D	9		15	G	6	H	3
14JG8	14	G	6	B	3	15BD11	15	D	6	A	10
	14	G	6	F	3		15	E	6	C	10
	14	F	6	H	3		15	F	6	F	10
14L7	14	F	4	F	9	*15CW5	15	C	1	B	3
	14	G	4	E	9	(Disregard Shorts except H-K)					
	14	G	4	C	9	15DQ8	15	D	6	A	3
14N7	14	E	6	D	9		15	D	6	H	3
	14	E	6	E	9	15EA7	15	D	6	A	2
14Q7	14	E	6	D	9		15	F	6	A	4
14R7	14	F	6	F	9	15EW6	15	D	6	A	4
	14	G	6	D	9	15EW7	15	C	3	G	3
	14	G	6	C	9		15	F	3	B	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
15FM7	15	C	9	C	10	*16GY5	16	A	5	J	10
	15	E	9	K	10	(Normal Shorts A, C, D, G, K)					
15FY7	15	C	9	C	10	16KA6	16	A	8	E	10
	15	E	9	K	10	16LU8	16	B	8	F	10
*15HA6	15	C	3	B	3		16	E	8	K	10
(Normal Shorts F, G)						16Y9	16	C	6	H	11
*15HB6	15	C	3	B	3		16	D	6	A	11
(Normal Shorts F, H)						17A8	17	D	7	B	3
15KY8	15	C	6	B	5		17	E	7	J	3
	15	G	6	J	5	17AB9	17	D	6	A	11
15LE8	15	D	6	J	3		17	D	6	F	11
15MF8	15	A	8	F	10	17AB10	17	C	6	A	10
	15	E	8	K	10		17	E	6	F	10
*16A5	16	C	9	B	3	17AV5	17	A	6	A	1
(Permissible Short F and						17AX3	17	A	11	D	10
one other Pin)						17AX4	17	A	2	E	2
16A8	16	C	6	C	3	*17AY3	17	A	8	B	5
	16	E	6	A	3	(Disregard Shorts except H-K)					
16AK9	16	E	7	C	10	+*17B-B14	17	A	1	B	12
	16	E	7	K	10	(Normal Shorts C, F, G, H)					
	16	B	7	J	10	17BE3	17	A	4	K	10
*16AQ3	16	(See Last Page)				(+See Magnoval Note on Page B)					
16BQ11	16	E	6	E	10	17BF11	17	C	6	H	10
	16	E	6	K	10		17	D	6	C	10
16BX11	16	D	6	B	10	*17BH3	17	A	8	B	5
	16	E	6	E	10	(Disregard Shorts except H-K)					
	16	E	6	H	10	17BJ6	17	D	6	A	4
*16C-B28	16	A	4	E	10	17BQ6	17	A	6	E	1
(Normal Shorts)						*17BR3	17	A	2	J	3
*16G-B16	16	A	5	A	1	(Disregard Shorts except H-K)					
(Normal Shorts C, D, F, H)						*17BS3	17	A	8	B	5
16GK6	16	C	3	B	3	(Disregard Shorts except H-K)					
16GK8	16	C	6	C	3	17BW3	17	A	4	K	10
	16	F	6	A	3	*17BZ3	17	A	4	K	10
						(Disregard Shorts except H-K)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
17C5	17	C	5	B	4	*17GV5	17	A	5	J	10
17C8	17	F	6	B	3	(Normal Shorts A, C, D, G, K)					
	17	G	6	G	3	17GV8	(See 18GV8)				
	17	G	6	H	3	17GW6	17	A	6	E	1
17C9	17	E	6	A	3	*17H3	17	A	7	C	8
	17	E	6	G	3	(Disregard All Shorts except H-K)					
17CA5	17	C	5	B	4	†*17H-B25	17	A	1	B	12
*17CK3	17	A	2	G	5	(Normal Shorts C, F, G, H)					
(Disregard Shorts except H-K)						17HC8	17	C	6	C	3
*17CL3	17	A	2	G	5		17	F	6	A	3
(Disregard Shorts except H-K)						*17JB6	17	A	7	B	5
17CQ4	17	A	2	E	2	(Normal Shorts A, G)					
*17CT3	17	A	2	F	3	*17JG6	17	A	1	B	5
(Disregard Shorts except H-K)						(Normal Shorts D, K)					
17CU5	17	C	5	B	4	17JK8	17	F	6	G	3
17D4	17	A	2	E	2		17	E	6	B	3
17DE4	17	A	2	E	2	17JN6	17	A	4	A	10
17DL8	17	C	6	B	3	*17JM6	17	A	9	E	10
	17	D	6	J	3	(Normal Shorts D, K)					
17DM4	17	A	2	E	2	17JQ6	17	A	8	H	3
17DQ4	17	A	2	E	2		17	G	8	F	3
17DQ6	17	A	6	E	1	17JR6	17	A	1	B	5
*17DW4	17	A	8	B	5	(†See Magnoval Note on Page B)					
(Disregard Shorts except H-K)						*17JT6	17	A	7	B	5
17EM7	17	D	6	A	2	(Normal Shorts A, G)					
	17	F	6	D	2	17JZ8	17	C	7	G	10
17EW8	17	E	6	B	3		17	E	7	K	10
	17	E	6	G	3	*17KV6	17	A	1	B	5
17G-B3	17	A	3	E	1	(Normal Shorts C, F, G, H)					
*17GE5	17	A	1	C	10	†17KW6	17	B	9	A	12
(Normal Shorts D, K)						(Normal Shorts C, F, G, H)					
*17GJ5	17	A	7	B	5	17L6	17	C	6	E	1
(Normal Short A, G)						17LD8	17	C	6	B	5
*17GT5	17	A	7	B	5		17	G	6	J	5
(Normal Short A, G)											

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
17N8	17	F	6	B	3	18GV8	18	C	6	J	3
	17	G	6	G	3		18	E	6	B	3
	17	G	6	H	3	18HB8	18	C	6	J	3
17R5	17	C	5	B	4		18	F	6	A	3
17R-HH2	17	E	6	B	3	18J6	18	E	6	E	4
	17	E	6	G	3		18	E	6	F	4
17W6	17	C	6	E	1	18RAL1	18	C	3	B	3
17X10	17	B	6	A	10		18	F	3	G	3
	17	H	6	F	10	19A3	19	A	7	E	4
17Y9	17	D	6	A	11	19AJ8	19	E	6	B	3
	17	C	6	H	11		19	F	6	J	3
*17Z3	17	A	2	J	3	19AQ5	19	C	8	A	4
(Disregard All Shorts except H-K)						19AU4	19	A	2	E	2
18A5	18	A	6	A	1	19BG6	19	A	6	E	1
18AJ10	18	F	6	C	10	19BX6	19	D	1	B	3
	18	B	6	H	10	19BY7	19	D	3	B	3
18AK5	18	E	2	A	4	19C8	19	F	6	H	3
18AQ5	18	C	8	A	4		19	G	6	F	3
18D2	10	D	6	J	3		19	G	6	B	3
	10	D	6	B	3		19	G	6	A	3
18DZ8	18	C	6	A	3	*19CG3	19	A	4	K	10
	18	F	6	C	3	(Disregard Shorts except H-K)					
18FW6	18	D	6	A	4	19CL8	19	D	6	A	3
18FX6	18	E	6	A	4		19	D	6	J	3
18FY6	18	F	6	A	4	19CS4	19	A	6	E	2
	18	G	6	E	4	(+See Magnoval Note on Page B)					
	18	G	6	F	4	19D8	19	E	6	B	3
+*18GB5	18	A	2	A	12		19	F	6	J	3
(Normal Shorts C, F, G, H)						19DC8	19	E	6	B	3
18GD6	18	D	6	A	4		19	G	6	G	3
18GE6	18	F	6	A	4		19	G	6	H	3
	18	G	6	E	4	*19DE3	19	A	4	K	10
	18	G	6	F	4	(Disregard Shorts except H-K)					
						19DE7	19	C	3	B	3
							19	E	3	G	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
19EA8	19	D	6	B	3	19T8	19	F	6	H	3
	19	D	6	J	3		19	G	6	F	3
19EW7	19	C	3	G	3		19	G	6	B	3
	19	F	3	B	3		19	G	6	A	3
19EZ8	19	E	6	B	3	*19U3	19	A	2	J	3
	19	E	6	G	3	(Disregard All Shorts except H-K)					
	19	E	6	J	3	19V8	19	F	6	F	3
19FL8	19	E	6	B	3		19	G	6	J	3
	19	G	6	G	3		19	G	6	G	3
	19	G	6	H	3		19	G	6	B	3
19GQ7	19	E	3	B	3	*19W3	19	A	2	J	3
	19	E	3	F	3	(Disregard All Shorts except H-K)					
	19	E	3	H	3	*19X3	19	A	2	J	3
19HR6	19	D	6	A	4	(Disregard All Shorts except H-K)					
19HS6	19	E	6	A	4	19X8	19	E	6	B	3
19HV8	19	D	6	J	3		19	E	6	G	3
	19	F	6	A	3	*19Y3	19	A	2	J	3
19J6	19	E	6	E	4	(Disregard All Shorts except H-K)					
	19	E	6	F	4	*20AQ3	20	(See Last Page)			
19JN8	19	D	6	J	3	20D3	12	F	10	B	3
	19	D	6	A	3		12	F	10	G	3
†*19KF6	19	A	1	G	12	20D4	20	D	6	B	3
(Normal Shorts H and one other Pin)							20	D	6	J	3
19KG8	19	E	6	B	3	20EQ7	20	E	6	B	3
	19	D	6	J	3		20	G	6	H	3
19MR9	19	F	6	A	4	20EW7	20	C	3	G	3
19M-R10	19	E	6	A	4		20	F	3	B	3
19Q9	19	D	6	B	3	20EZ7	20	C	6	B	13
	19	D	6	H	3		20	F	6	G	13
19R-LL1	(See Last Page)					(See back of book for Mighty Mites not having socket #13)					
19R-P11	19	C	6	A	8	20J8	20	E	6	K	1
*19SU	19	A	2	J	3		20	F	6	E	1
(Disregard All Shorts except H-K)						*20P18	15	C	1	B	3
						(Disregard All Shorts except H-K)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*21A6	21	C	1	B	3	22JR6	22	A	1	B	5
(Permissible Short F or G and one other Pin)						*22JU6	22	A	7	B	5
21A7	21	E	6	F	9	(Normal Shorts A, G)					
	21	F	6	D	9	*22KM6	22	A	7	B	5
*21B6	21	C	1	B	3	(Normal Shorts A, G)					
(Permissible Short F or G and one other Pin)						*22KV6	22	A	1	B	5
21EX6	21	A	6	E	1	(Normal Shorts C, F, G, H)					
21GY5	21	A	5	J	10	*22JF6	22	A	7	B	5
(Normal Shorts A, C, D, G, K)						(Normal Shorts A, G)					
*21HB5	21	A	3	A	10	*23JS6	23	A	10	E	10
(Normal Shorts D, K)						(Normal Shorts A, C, D, K)					
*21HD5	21	A	1	C	10	23Z9	23	E	7	C	10
(Normal Shorts D, E, J, K)							23	E	7	K	10
*21HJ5	21	A	1	C	10		23	C	7	H	10
(Normal Shorts D, E, J, K)						24AX4	24	A	2	E	2
21JV6	21	A	6	A	10	24BF11	24	C	6	H	10
*21JZ6	21	A	8	E	10		24	D	6	C	10
(Normal Shorts D, K)						24GA7	24	A	2	D	10
21KA6	21	A	8	E	10		24	A	2	A	10
†*21KQ6	21	A	1	H	12	*24JE6	24	A	7	B	5
(Normal Shorts B, C, F, G)						(Normal Shorts A, G)					
*21LG6	21	A	5	J	10	24JZ8	24	C	7	C	10
(Normal Shorts A, C, D, K)							24	E	7	K	10
21LR8	21	C	6	B	5	*24LQ6	24	A	2	F	5
	21	D	6	J	5	(Normal Shorts A, G)					
*21LU8	21	B	8	F	10	25A6	25	C	6	E	1
	21	E	8	K	10	25A7	25	B	6	F	1
(Normal Shorts F, G)							25	C	6	E	1
*22BH3	22	A	8	B	5	25AC5	25	F	6	E	1
(Disregard All Shorts except H-K)						25AU4	25	A	2	E	2
22BW3	22	A	4	K	10	25AV5	25	A	6	A	1
22DE4	22	A	2	E	2	25AX4	25	A	2	E	2
*22JF6	22	A	7	B	5	25B6	25	C	6	E	1
(Normal Shorts A, G)						25B8	25	E	6	K	1
22JG6	22	A	1	B	5		25	F	6	H	1

TUBE	A	B	C	D	Skt
†*25B-B14	25	A	1	B	12
(Normal Shorts C, F, G, H)					
25BK5	25	C	8	C	3
25BQ6	25	A	6	E	1
*25BR3	25	A	1	J	8
(Disregard All Shorts except H-K)					
25C5	25	C	5	B	4
25C6	25	C	6	E	1
25CA5	25	C	5	B	4
*25CG3	25	A	4	K	10
(Disregard All Shorts except H-K)					
25CD6	25	A	6	E	1
*25CK3	25	A	2	G	5
(Disregard Shorts except H-K)					
25CM3	25	A	2	G	5
*25CR5	25	C	9	C	3
(Normal Shorts A, B, F, G)					
25CU6	25	A	6	E	1
25D4	25	A	6	E	2
25D8	25	E	6	K	1
	25	G	6	H	1
	25	G	6	E	1
25DK4	25	B	8	E	4
25DN6	25	A	6	E	1
25DQ6	25	A	6	E	1
(†See Magnoval Note on Page B)					
*25DT5	25	C	7	C	3
(Permissible Short H and one other Pin)					
25E5	25	C	1	E	1
25EC6	25	A	6	E	1
25EH5	25	C	5	B	4
25F5	25	C	5	B	4
25FY8	25	E	6	C	3
	25	F	6	A	3
25GF6	25	C	1	E	1

TUBE	A	B	C	D	Skt
25JQ6	25	A	8	H	3
	25	G	8	F	3
25JZ8	25	C	7	G	10
	25	E	7	K	10
25L6	25	C	6	E	1
25M-P20	25	A	6	A	4
25SN7	25	E	6	A	2
	25	E	6	D	2
25U4	25	A	2	E	2
25W4	25	A	2	E	2
25W6	25	C	6	E	1
25X6	25	B	6	C	1
	25	B	6	E	1
25Y4	25	B	6	E	1
25Z4	25	B	6	E	1
25Z6	25	B	6	C	1
	25	B	6	E	1
26A6	26	D	6	A	4
26AQ8	26	D	6	B	3
	26	D	6	G	3
26BK6	26	F	6	A	4
	26	G	6	E	4
	26	G	6	F	4
26C6	26	F	6	A	4
	26	G	6	E	4
	26	G	6	F	4
(†See Magnoval Note on Page B)					
26CG6	26	E	6	A	4
26D6	26	E	6	A	4
26E6	26	C	6	E	1
26HU5	26	A	5	A	2
26Z5	26	B	10	A	3
	26	B	10	F	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
27BL7	27	D	6	B	3	30C13	9	D	6	B	3
	27	D	6	J	3		9	D	6	J	3
27BL8	27	D	6	B	3	*30CW5	30	C	1	B	3
	27	D	6	J	3	(Permissible Short F or H and one other Pin)					
†*27GB5	27	A	2	A	12	*30HD5	30	A	1	C	10
(Normal Shorts C, F, G, H)						(Normal Shorts D, E, J, K)					
†*27KG6	27	A	1	H	5	*30HJ5	30	A	1	C	10
(Normal Shorts B, C, F, G)						(Shorts D, E, J, K)					
28AK8	28	F	6	H	3	30KD6	30	A	5	J	10
	28	G	6	F	3	30L1	7	E	8	B	3
	28	G	6	B	3		7	E	8	F	3
	28	G	6	A	3	30M-P27	30	B	2	E	4
28D7	28	D	6	B	9	30P4	25	C	1	E	1
	28	D	6	G	9	30P16	16	C	7	B	3
†*28GB5	28	A	2	A	12	*30P18	15	C	1	B	3
(Normal Shorts C, F, G, H)						(Permissible Short F or H and one other Pin)					
*28HA6	28	C	3	B	3	31AL10	31	F	7	A	10
(Normal Short F, G)							31	F	7	C	10
*28HD5	28	A	1	C	10		31	A	7	H	10
(Normal Shorts D, E, J, K)						*31JS6	31	A	10	E	10
28Z5	28	B	4	C	9	(Normal Shorts A, C, D, K)					
	28	B	4	F	9	*31LQ6	31	A	2	F	5
29GK6	29	C	3	B	3	(Normal Shorts A, G)					
*29HA6	29	C	3	B	3	32A8	32	C	6	C	3
(Normal Shorts F, G)							32	G	6	A	3
†*29KQ6	29	A	1	H	12	32ET5	32	C	5	B	4
(Normal Shorts B, C, F, G)						32GA7	32	A	2	D	10
30A5	30	C	5	B	4		32	A	2	A	10
*30AE3	30	(See Last Page)				*32HQ7	32	A	8	B	10
*30AG3	30	(See Last Page)					32	A	8	J	10
30AG11	30	E	6	E	10	(Normal Shorts C, F, K)					
	30	E	6	H	10	32L7	32	A	6	F	1
	30	F	6	C	10		32	C	6	E	1
	30	F	6	K	10						
30C1	9	D	6	B	3						
	9	D	6	J	3						

TUBE	A	B	C	D	Skt
*33GT7	33	A	8	B	10
(Normal Shorts A, J)					
	16	A	10	A	10
(Normal Shorts G, H-K)					
*33GY7	33	A	8	B	10
(Normal Shorts J, K)					
	16	A	11	J	10
(Normal Shorts G, H-K)					
‡33HE7	33	A	11	B	10
	33	A	11	J	10
‡Long warm up time is normal					
33HK7	33	A	11	B	10
	33	A	11	J	10
33JV6	33	A	6	A	10
34CD3	34	A	4	K	10
*34CE3	34	A	4	K	10
(Disregard Shorts except H-K)					
34CM3	34	A	2	G	5
34GD5	34	C	2	E	4
*34R3	34	A	2	J	3
(Disregard Shorts except H-K)					
35A3	35	B	6	E	4
35A5	35	C	6	F	9
35B5	35	C	8	A	4
35C3	35	B	6	E	4
35C5	35	C	5	B	4
35CD6	35	A	6	E	1
*35D5	35	C	10	A	3
(Normal Short B, C, G, H)					
35DZ8	35	C	6	C	3
	35	F	6	A	3
35EH5	35	C	5	B	4
*35FM5	35	A	4	E	1
(Normal Short A, C, F, H)					
35GL6	35	C	7	B	4

TUBE	A	B	C	D	Skt
35HB8	35	C	6	J	3
	35	F	6	A	3
35L6	35	C	6	E	1
*35LR6	35	A	10	E	10
(Normal Shorts A, C, D, K)					
*35QL6	35	C	1	J	3
(Normal Shorts C, J)					
35W4	35	A	7	E	4
35X4	35	A	6	E	4
35Y4	35	A	4	B	9
35Z3	35	A	6	B	9
35Z4	35	B	6	E	1
35Z5	35	B	3	E	1
35Z6	35	B	6	C	1
	35	B	6	E	1
36AM3	36	A	7	E	4
*36KD6	36	A	10	E	10
(Normal Shorts A, D, J, K)					
*38A3	38	A	2	J	3
(Disregard All Shorts except H-K)					
‡38HE7	38	A	11	B	10
	38	A	11	J	10
‡Long warm up time is normal					
38HK7	38	A	11	B	10
	38	A	11	J	10
40FR5	40	C	5	B	4
†*40KG6	40	A	1	H	12
(Normal Shorts B, C, F, G)					
*40KD6	40	A	10	C	10
(Normal Shorts A, C, D, K)					
40Z5	40	B	3	E	1
*42KN6	21	A	10	E	10
(Disregard Shorts A, C, D, G, K, H-K)					
*45B5	45	C	1	B	3
(Normal Shorts F, G, H, J)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*45Z3	45	B	7	B	7	50Z6	50	A	6	C	1
(Disregard All Shorts except H-K)						50Z6	50	A	6	E	1
45Z5	45	B	3	E	1	50Z7	50	A	7	C	1
50A5	50	C	6	F	9	50Z7	50	A	7	E	1
50AX6	50	A	6	C	1	53HK7	53	A	11	B	10
	50	A	6	E	1	53HK7	53	A	11	J	10
50B5	50	C	8	A	4	*55N3	50	A	2	J	3
50BK5	50	C	8	C	3	(Disregard All Shorts except H-K)					
50BM8	50	C	6	C	3	†58HE7	58	A	6	B	10
	50	F	6	A	3	58HE7	58	A	6	J	10
50C5	50	C	5	B	4	60E3	60	A	6	E	4
50C6	50	C	6	E	1	60EH5	50	D	5	B	4
50CA5	50	C	5	B	4	60FX5	50	D	5	B	4
50CD6	50	A	6	E	1	*60HL5	60	A	1	B	3
50DC4	50	A	7	E	4	(Disregard Shorts on F, H, and one other Pin)					
50E5	50	C	1	E	1	†70A7	50	D	7	E	1
50EH5	50	C	5	B	4	†70L7	50	C	6	H	1
50FA5	50	C	5	B	4	70L7	50	D	6	E	1
50FE5	50	C	6	E	1	†117L7	50	F	6	D	1
50FK5	50	C	5	B	4	†117N7	50	F	6	D	1
50FY8	50	E	6	C	3	†117P7	50	F	6	D	1
	50	F	6	A	3	†117Z3	50	F	1	E	4
50HC6	50	C	7	B	4	†117Z4	50	F	6	E	1
50HC8	50	C	7	B	4	†117Z6	50	F	6	C	1
50HK6	50	C	7	B	4	50	F	6	E	1	
50HN5	50	C	1	B	3	401A	6	F	8	A	4
50JY6	50	A	6	E	1	403B	6	E	8	A	4
50L6	50	C	6	E	1	*407A	20	F	6	C	3
(†See Magnoval Note on Page B)						407A	20	F	6	G	3
50X6	50	A	6	C	9	(Normal Shorts A, J)					
	50	A	6	F	9	408A	20	E	2	A	4
50Y6	50	B	6	C	1	*815	6	A	5	B	2
	50	B	6	E	1	(Normal Shorts A, C, F)					
50Y7	50	A	7	C	1						
	50	A	7	E	1						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*1201	6	F	5	A	9	1621	6	C	6	E	1
(Disregard Shorts)						1622	6	C	6	E	1
†1203A	6	F	6	D	9	1626	12	E	6	E	1
1204	6	F	7	E	9	1631	12	C	6	E	1
1206	6	F	6	D	9	1632	12	C	6	A	2
	6	F	6	E	9	1633	25	E	6	E	1
1216	6	G	6	E	4		25	E	6	D	2
	6	G	6	F	4	1634	12	F	6	C	2
1217	6	F	6	A	4		12	F	6	D	2
†Long warm up time is normal						1635	6	F	6	D	1
1219	(See Last Page)						6	F	6	E	1
1220	6	D	2	A	4	1649	6	D	6	D	1
1223	6	F	6	K	1	*1654	1	H	2	K	7
1231	6	E	6	F	9	(Disregard Shorts)					
1232	6	F	6	F	9	1655	6	F	6	C	2
*1238	28	D	6	B	2		6	F	6	D	2
(Disregard All Shorts except H-K)						*1662	3	F	5	D	7
1252	6	D	6	J	3	(Normal Short B, F)					
	6	D	2	A	4	1679	6	E	6	E	4
1273	6	F	6	F	9		6	E	6	F	4
1280	12	F	6	F	9	1852	6	D	6	D	1
1282	6	D	4	F	9	1853	6	D	6	D	1
*1291	6	F	4	C	2	*4037	6	C	3	K	1
	6	F	4	F	2	(Normal Shorts E, H)					
(Normal Shorts A, H-K)						5590	6	F	8	A	4
1293	1	F	5	F	9	5591	6	E	8	A	4
1294	1	H	6	D	9	5610	6	D	5	F	4
1299	1	E	8	F	9	5618	6	C	5	F	7
1611	6	B	6	E	1	5642	1	H	6	K	4
1612	6	F	6	K	1	(Insert two tube leads into pins 3 and 4; touch cap lead to top lead on tube.)					
1613	6	B	6	E	1	5654	6	D	2	A	4
1614	6	A	6	E	1	5656	6	E	2	A	4
1619	2	A	6	E	1	5659	12	C	6	E	1
1620	6	F	6	K	1						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
5660	12	E	6	K	1	5844	6	G	6	E	4
	12	G	6	D	1		6	G	6	F	4
	12	G	6	E	1	5845	5	G	8	A	4
5661	12	D	6	D	1		5	G	8	E	4
5670	(See Last Page)					5852	6	B	6	C	1
5679	6	E	4	C	9		6	B	6	E	1
	6	E	4	F	9	5871	6	C	6	E	1
5686	6	C	3	B	3	5879	6	F	6	A	3
	(Normal Shorts A, F, H, J)					5881	6	C	6	E	1
5687	12	D	9	B	3	5890	6	G	8	B	10
	12	D	9	G	3	5910	1	G	5	F	7
5691	6	F	6	A	2	5915	6	E	6	A	4
	6	F	6	D	2	5920	6	E	6	E	4
5692	6	E	6	A	2		6	E	6	F	4
	6	E	6	D	2	5928	6	F	2	J	3
5693	6	F	6	D	1	*5931	5	A	6	D	1
5694	6	F	6	D	1		5	A	6	F	1
	6	F	6	E	1		(Normal Short H, H-K)				
5725	6	E	6	A	4	5932	6	C	6	E	1
5726	6	E	6	B	3	5963	12	E	10	B	3
	6	E	6	G	3		12	E	10	G	3
5732	6	E	6	K	1	5964	6	E	6	E	4
5749	6	D	6	A	4		6	E	6	F	4
5750	6	D	6	A	4	5965	12	E	10	B	3
5751	12	F	10	B	3		12	E	10	G	3
	12	F	10	G	3	*5969	1	G	6	B	2
							1	G	6	G	2
5763	6	C	9	J	3		(Normal Short A, H-K)				
5814	12	E	10	B	3	*5970	1	G	6	B	2
	12	E	10	G	3		1	G	6	G	2
5824	25	C	6	E	1		(Normal Shorts A, H-K)				
5838	12	B	6	C	1	5992	6	C	6	E	1
	12	B	6	E	1	5998	6	C	6	A	2
5839	26	B	6	C	1		6	C	6	D	2
	26	B	6	E	1	6000	26	C	6	A	1

TUBE	A	B	C	D	Skt
*6004	5	B	6	K	1
	5	B	6	K	1
(Change clip lead from one tube cap to other; Normal Short H, H-K)					
6005	6	C	8	A	4
6006	6	D	5	D	1
6028	20	E	2	A	4
6042	6	E	6	A	2
	6	E	6	D	2
6045	6	E	6	E	4
	6	E	6	F	4
6046	25	C	6	E	1
6057	12	G	10	B	3
	12	G	10	G	3
6058	6	E	6	B	4
	6	E	6	G	4
6059	6	F	6	K	1
6060	12	E	10	B	3
	12	E	10	G	3
6061	6	C	6	E	1
6063	6	B	6	A	4
	6	B	6	F	4
6064	6	D	6	A	4
6065	6	E	6	A	4
6066	6	F	6	A	4
	6	G	6	E	4
	6	G	6	F	4
6067	12	D	10	B	3
	12	D	10	G	3
6072	12	E	10	B	3
	12	E	10	G	3
6080	6	A	6	A	2
	6	A	6	D	2

TUBE	A	B	C	D	Skt
6082	26	A	6	A	2
	26	A	6	D	2
6084	6	G	6	J	3
6085	12	E	10	B	3
	12	E	10	G	3
*6087	5	B	6	D	1
	5	B	6	F	1
(Normal Short H, H-K)					
*6094	6	C	7	A	3
(Normal Short B, C, G, J, H-K)					
6095	6	C	8	A	4
6096	6	E	2	A	4
6097	6	E	6	B	4
	6	E	6	G	4
*6098	6	G	6	E	2
(Emission and Short Test only; Normal Short H, H-K)					
6099	6	E	6	E	4
	6	E	6	F	4
6100	6	E	1	F	4
6101	6	E	6	E	4
	6	E	6	F	4
*6106	5	B	6	D	1
	5	B	6	F	1
(Normal Short H, H-K)					
6113	6	F	6	A	2
	6	F	6	D	2
6118	6	G	6	K	1
	6	H	6	D	1
	6	H	6	E	1
*6132	6	C	1	B	3
(Permissible Short F and one other Pin)					
6134	6	D	6	D	1
6135	6	E	1	F	4
6136	6	D	6	A	4

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6137	6	D	6	D	1	*6293	6	A	1	E	1
6145	6	E	6	F	9	(Normal Short D, F)					
*6146	6	C	7	E	1	6325	6	A	6	C	2
(Normal Short A, D)							6	A	6	E	2
*6159	26	C	7	E	1	6327	6	C	1	E	1
(Normal Short A, D)						6336	6	C	6	A	2
6180	6	E	6	A	2		6	C	6	D	2
	6	E	6	D	2	6350	12	E	10	C	3
6186	6	E	2	A	4		12	E	10	H	3
6187	6	E	6	A	4	6352	3	G	4	E	2
6188	6	F	6	A	2	6360	12	C	10	A	3
	6	F	6	D	2		12	C	10	C	3
6189	12	D	10	B	3	*6384	6	G	6	E	2
	12	D	10	G	3	(Emission and Short Test Only;					
*6197	6	C	10	B	3	Normal Short H, H-K)					
(Normal Short C, H)						6386	(See Last Page)				
6201	12	E	10	B	3	6394	26	C	6	A	2
	12	E	10	G	3		26	C	6	D	2
6202	6	B	6	A	4	6414	12	E	10	B	3
	6	B	6	F	4		12	E	10	G	3
6203	6	B	6	A	3	6417	12	A	10	H	3
	6	B	6	J	3	6463	12	E	10	C	3
6211	12	F	10	B	3		12	E	10	H	3
	12	F	10	G	3	6485	6	E	6	A	4
*6215	1	H	3	K	1	6516	6	C	6	A	4
(Normal Short H, H-K)						6520	6	A	6	A	2
*6216	6	C	7	B	3		6	A	6	D	2
(Normal Short C, H)						6528	6	C	6	A	2
6218	6	H	9	B	3		6	C	6	D	2
6227	6	C	1	B	3	6550	6	A	6	E	1
6265	6	E	6	A	4	6660	6	D	6	A	4
6267	6	F	2	J	3	6661	6	E	6	A	4
6277	6	C	1	B	3	6662	6	E	6	A	4
*6287	6	C	2	H	3	6663	6	E	6	B	4
(Normal Short C, F, J)							6	E	6	G	4

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
6664	6	E	2	F	4	*6883	12	C	1	E	1
6669	6	C	8	A	4	(Normal Shorts D, F)					
6676	6	D	6	A	4	6887	6	E	6	B	4
*6677	6	C	1	B	3		6	E	6	G	4
(Normal Short C, H)						6888	6	C	6	D	1
6678	6	D	6	B	3	*6893	12	A	1	E	1
	6	D	6	J	3	(Normal Shorts D, F)					
6679	12	E	10	B	3	6900	12	C	9	B	3
	12	E	10	G	3		12	C	9	G	3
6680	12	D	10	B	3	6913	12	E	10	B	3
	12	D	10	G	3		12	E	10	G	3
6681	12	F	10	B	3	6919	6	E	6	B	4
	12	F	10	G	3		6	E	6	G	4
6686	6	C	1	B	3	6922	6	E	6	B	3
6687	6	F	6	A	4		6	E	6	G	3
6688	6	D	1	B	3	6927	6	E	6	E	4
6689	6	E	6	B	3		6	E	6	F	4
6754	6	B	6	A	3	6928	6	C	8	A	4
	6	B	6	J	3	6939	12	C	10	A	3
*6792	6	F	9	E	1		12	C	10	C	3
(Normal Short C, E)						6954	6	E	6	A	4
6829	12	E	10	B	3	6955	12	D	10	B	3
	12	E	10	G	3		12	D	10	G	3
6840	12	D	10	C	3	6968	6	E	2	A	4
	12	D	10	H	3	*6973	6	C	7	C	3
6851	6	F	10	B	3	(Normal Shorts A, H)					
	6	F	10	G	3	7000	6	F	6	K	1
*6853	5	B	6	D	1	7001	6	C	2	A	4
	5	B	6	F	1	7025	12	G	10	B	3
(Normal Short H, H-K)							12	G	10	G	3
*6870	12	C	7	B	3	*7027	6	C	7	E	1
(Normal Shorts C, J)						(Normal Short A, D)					
*6877	6	C	7	A	3	7036	6	D	6	A	4
(Normal Short C, J, H-K)						7044	12	C	9	B	3
							12	C	9	G	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*7054	13	C	7	B	3	7244	6	E	6	E	4
(Permissible Short C, J)							6	E	6	F	4
7055	13	E	6	B	4	*7245	6	H	1	G	4
	13	E	6	G	4	(Emission and Short Test only; Normal Short E, F)					
7056	13	E	6	A	4	7247	12	D	10	B	3
7057	13	E	6	B	3		12	G	10	G	3
	13	E	6	G	3	7258	13	D	6	B	3
7058	13	F	6	B	3		13	D	6	H	3
	13	F	6	G	3	7308	6	E	6	B	3
7059	13	D	6	B	3		6	E	6	G	3
	13	D	6	J	3	7316	12	E	10	B	3
7060	13	D	6	B	3		12	E	10	G	3
	13	D	6	H	3	7318	12	E	10	B	3
*7061	13	C	7	C	3		12	E	10	G	3
(Normal Short A, H)						*7320	6	C	1	B	3
7062	12	E	10	B	3	(Permissible Shorts F or H and one other Pin)					
	12	E	10	G	3	7355	6	C	6	F	1
7105	13	C	6	A	2	*7358	6	A	1	E	1
	13	C	6	D	2	(Normal Shorts D, F)					
7119	12	D	9	B	3	7360	6	E	6	C	3
	12	D	9	G	3	7370	40	D	8	B	3
*7137	6	H	1	G	4		40	D	8	G	3
(Emission and Short Test only; Normal Short E, F)						7408	6	C	6	E	1
7167	13	E	2	A	4	*7534	6	C	3	E	1
*7189	6	C	1	B	3	(Permissible Shorts A or F and one other Pin)					
(Permissible Shorts F or H and one other Pin)						7543	6	D	6	A	4
7199	6	D	6	G	3	*7551	12	C	1	B	3
	6	E	6	J	3	(Normal Short C, H)					
*7212	6	C	5	E	1	*7558	6	C	1	B	3
(Normal Short A, F)						(Normal Short C, H)					
7227	27	C	7	B	3	7581	6	C	6	E	1
7236	6	C	6	A	2	7586	6	F	6	D	6
	6	C	6	D	2	7587	6	F	6	D	6

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
7591	6	C	4	F	1	7732	6	D	6	A	4
*7607	6	C	1	E	1	*7733	12	C	7	B	3
(Normal Short C, F)						(Normal Short C and J)					
7643	6	D	6	B	3	7737	6	D	1	B	3
	6	E	6	J	3	7754	6	A	3	F	8
*7683	6	E	2	A	3	*7788	6	C	1	B	3
(Normal Shorts C, F, J)						(Normal Shorts F, J)					
7687	6	E	6	B	3	7803	6	C	6	B	3
	6	F	6	J	3		6	C	6	G	3
7693	6	E	6	A	4	7867	6	C	6	E	1
7695	50	A	3	F	8	*7868	6	A	7	B	5
7699	6	D	10	A	3	(Normal Short A, G)					
	6	D	10	C	3	7892	12	D	9	B	3
*7701	13	C	1	B	3		12	D	9	G	3
(Normal Short C, G, H, J)						7895	6	G	6	D	6
7716	13	D	6	G	3	7898	12	E	10	B	3
	13	F	6	B	3		12	E	10	G	3
7717	6	E	2	A	4	*7984	13	C	1	K	10
7719	12	F	1	G	8	(Disregard All Shorts except G, K)					
*7721	6	C	1	B	3	*8032	13	C	4	E	1
(Permissible Short F and one other Pin)						(Normal Short A, F)					
*7722	6	C	1	B	3	8056	6	G	6	D	6
(Permissible Short F and one other Pin)						*8058	6	G	2	K	6
7724	14	F	6	H	3	Connect to large lug					
	14	G	6	F	3	(Normal Short D & H)					
	14	G	6	B	3	8068	6	D	6	E	1
7728	12	E	10	B	3	8077	13	C	10	B	3
	12	E	10	G	3	8102	13	E	6	C	3
7729	12	F	10	B	3		13	E	6	J	3
	12	F	10	G	3	*8106	13	D	2	G	3
7730	12	D	10	B	3	(Normal Shorts C, F, H, J)					
	12	D	10	G	3	8113	6	D	2	A	4
7731	6	D	6	B	3	*8149	12	A	1	K	10
	6	D	6	J	3	(Normal Shorts B, C, D, H, J)					
						*8150	13	A	1	K	10
						(Normal Shorts B, D, E, F, G, H)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*8156	13	B	1	K	10	8458	6	A	10	A	3
(Disregard All Shorts except G, K, H-K)							6	A	10	C	3
8203	6	E	6	D	6	8489	6	D	6	B	3
*8233	6	D	10	H	5		6	D	6	H	3
(Normal Shorts B, F)						*8532	6	G	1	G	4
(Do NOT test for Shorts on TC114)						(Normal Shorts E, F)					
*8255	6	H	1	H	3	*8552	12	C	4	E	1
(Normal Shorts C, F, G, J)						(Normal Shorts A, F)					
*8556	6	G	1	H	8	*8556	6	G	1	H	8
(Normal Shorts C, E, F)						(Normal Shorts C, E, F)					
*8278	6	C	8	C	5	†*8608	6	B	2	H	12
(Normal Shorts B, F)						(Normal Shorts G, J)					
*8298	6	A	1	E	1	9001	6	F	2	A	4
(Normal Shorts D, F)						*9002	6	E	2	F	4
8323	6	A	10	H	5	(Normal Short A and E)					
(Normal Shorts B, F)						9003	6	E	2	A	4
8327	6	C	6	B	3	*9006	6	F	1	E	4
8380	6	F	6	D	6	(Normal Short B and G)					
8382	6	E	6	D	6	A863	6	F	6	K	1
8393	13	G	6	D	6	A1834	6	A	6	A	2
8417	6	A	6	E	1		6	A	6	D	2
8441	6	F	6	D	6	(†See Magnoval Note on Page B)					
8445	6	D	6	B	3	AA91E	6	E	6	B	4
	6	D	6	J	3		6	E	6	G	4
8446	6	D	6	A	3	B36	12	E	6	A	2
	6	D	6	J	3		12	E	6	D	2
8447	12	C	10	B	3	B65	6	E	6	A	2
	12	D	10	F	3		6	E	6	D	2
	12	D	10	G	3	B109	26	D	6	B	3
8448	6	C	7	B	3		26	D	6	G	3
8449	6	D	6	B	3	B152	12	E	10	B	3
	6	D	6	H	3		12	E	10	G	3
8456	6	F	6	D	6	B309	12	E	10	B	3
8457	6	C	10	A	3		12	E	10	G	3
	6	C	10	C	3						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
B319	7	E	7	B	3	DAE32	1	F	6	K	1
	7	E	7	F	3		1	G	6	E	1
B329	12	D	10	B	3	DAF91	1	G	6	F	7
	12	D	10	G	3		1	H	6	C	7
B339	12	F	10	B	3	DAF92	1	G	6	F	7
	12	F	10	G	3		1	H	6	D	7
B719	6	D	6	B	3	DAF96	1	G	2	F	7
	6	D	6	G	3		1	H	2	C	7
B739	12	E	10	B	3	DCC90	3	F	4	C	7
	12	E	10	G	3		3	F	4	E	7
B749	12	D	10	B	3	DD6	6	E	6	B	4
	12	D	10	G	3		6	E	6	G	4
B759	12	F	10	B	3	DD7	6	C	6	A	4
	12	F	10	G	3	DDR7	6	D	6	A	4
BPMO4	6	C	8	A	4	DF33	1	F	6	K	1
C10B	2	F	6	E	1	DF91	1	F	5	F	7
CC81E	12	E	10	B	3	DF92	1	F	5	F	7
	12	E	10	G	3	DF96	1	G	5	F	7
CXF80	4	D	6	B	3	DF97	1	G	2	A	4
	4	D	6	J	3	DF904	1	F	5	F	7
D2M9	6	E	6	B	4	DH63	6	F	6	K	1
	6	E	6	G	4		6	G	6	E	1
D63	6	F	6	C	1		6	G	6	D	1
	6	F	6	E	1	DH74	12	F	6	K	1
D77	6	E	6	B	4		12	G	6	E	1
	6	E	6	G	4		12	G	6	D	1
D152	6	E	6	G	4	DH76	12	F	6	K	1
	6	E	6	B	4		12	G	6	E	1
*D193	3	F	5	D	7		12	G	6	D	1
(Normal Short B, F)						DH77	6	F	6	A	4
*D430	1	H	3	K	1		6	G	6	E	4
(Disregard Shorts)							6	G	6	F	4
DAC32	1	G	6	K	1		6	G	6	F	4
	1	G	6	E	1						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
DH109	28	F	6	H	3	*DL95	3	F	5	C	7
	28	G	6	F	3		(Normal Short B, F)				
	28	G	6	B	3	DL96	3	G	5	F	7
	28	G	6	A	3	*DL193	3	F	5	D	7
DH147	6	F	6	K	1	DP51	6	E	2	A	4
	6	G	6	E	1	DP61	6	E	2	A	4
	6	G	6	D	1	*DY30	1	H	2	K	1
DH149	6	F	4	F	9		(Normal Short H, H-K)				
	6	G	4	E	9	*DY70	1	H	6	K	3
	6	G	4	C	9	(Insert two tube leads into Pins 3 and 4; touch cap lead to top lead on tube.)					
DH719	6	F	6	H	3	*DY80	1	H	1	K	8
	6	G	6	F	3		(Disregard Shorts)				
	6	G	6	B	3	*DY86	1	H	1	K	8
	6	G	6	A	3		(Disregard Shorts)				
DK32	1	G	6	E	1	*DY87	1	H	1	K	8
DK91	1	F	5	D	7		(Disregard Shorts)				
DK92	1	F	6	D	7	E80CC	12	E	10	B	3
DK96	1	F	6	D	7		12	E	10	G	3
DL33	3	D	9	E	1	E80CF	6	D	6	B	3
DL35	1	F	6	E	1		6	E	6	J	3
DL36	1	E	6	E	1	E80F	6	G	6	J	3
DL63	6	F	6	K	1	E80L	6	C	1	B	3
	6	G	6	E	1	E80T	6	H	9	B	3
	6	G	6	D	1	E81CC	12	E	10	B	3
DL74M	12	F	6	K	1		12	E	10	G	3
	12	G	6	E	1	E81L	6	C	1	B	3
	12	G	6	D	1	E82CC	12	D	10	B	3
*DL91	1	F	5	C	7		12	D	10	G	3
	(Normal Short B, F)					E82CF	6	D	6	B	3
*DL92	3	F	5	C	7		6	D	6	J	3
	(Normal Short B, F)					E83CC	12	F	10	B	3
*DL93	3	F	5	D	7		12	F	10	G	3
	(Normal Short B, F)					E83F	6	E	6	B	3
DL94	3	F	5	F	7						

TUBE	A	B	C	D	Skt
*E86C	6	D	1	F	8
(Normal Short C, G)					
*E88C	6	H	1	H	3
(Normal Shorts C, F, G, J)					
E88CC	6	E	6	B	3
	6	E	6	G	3
E90CC	6	E	6	E	4
	6	E	6	F	4
E90F	6	E	6	A	4
E91AA	6	E	6	B	3
	6	E	6	G	3
E91H	6	F	6	A	4
E92CC	6	E	6	C	3
	6	E	6	F	3
(Normal Short B, F)					
E95F	6	E	2	A	4
E130L	6	C	3	E	1
(Disregard Shorts on A, B, E, if any)					
E180CC	12	E	10	B	3
	12	E	10	G	3
E180F	6	D	1	B	3
E182CC	12	D	9	B	3
	12	D	9	G	3
E186F	6	D	1	B	3
E188CC	6	E	6	B	3
	6	E	6	G	3
EA50	2	E	2	A	4
EAA91	6	E	6	B	4
	6	E	6	G	4
EAA901	6	E	6	B	4
	6	E	6	G	4
EAB80	6	F	6	H	3
	6	G	6	G	3
	6	G	6	B	3
	6	G	6	A	3

TUBE	A	B	C	D	Skt
EABC80	6	F	6	H	3
	6	G	6	F	3
	6	G	6	B	3
	6	G	6	A	3
EAF801	6	D	6	B	3
	6	D	6	H	3
EB34	6	E	6	C	1
	6	E	6	E	1
EB91	6	E	6	B	4
	6	E	6	G	4
EBC33	6	E	6	K	1
	6	G	6	E	1
	6	G	6	D	1
EBC80	6	F	6	H	3
	6	G	6	F	3
	6	G	6	B	3
EBC81	6	F	6	H	3
	6	G	6	F	3
	6	G	6	B	3
EBC90	6	F	6	A	4
	6	G	6	E	4
	6	G	6	F	4
EBC91	6	F	6	A	4
	6	G	6	E	4
	6	G	6	F	4
EBF80	6	F	6	B	3
	6	G	6	G	3
	6	G	6	H	3
EBF81	6	E	6	B	3
	6	G	6	G	3
	6	G	6	H	3
EBF83	6	G	6	B	3
	6	G	6	G	3
	6	G	6	H	3

TUBE	A	B	C	D	Skt
EBF89	6	D	6	B	3
	6	G	6	G	3
	6	G	6	H	3
EC80	6	D	8	A	8
EC81	6	C	6	A	3
EC86	6	E	3	F	8
*EC88	6	H	1	H	3
(Normal Shorts A, C, F, G, J; Emission and Shorts Test Only)					
EC90	6	D	1	F	4
*EC91	6	E	7	A	4
(Normal Short B, E)					
EC92	6	E	2	F	4
*EC93	6	D	7	B	4
(Normal Short A, G)					
EC94	6	D	7	B	4
(Normal Short A, G)					
EC95	6	E	8	B	4
EC97	6	E	1	B	4
*EC806	6	D	1	E	8
(Normal Shorts C, G)					
EC900	6	E	2	A	4
*EC8010	6	G	1	H	8
(Normal Shorts C, E, F)					
*EC8020	6	G	1	H	8
(Normal Shorts C, E, F)					
ECC32	6	E	6	A	2
	6	E	6	D	2
ECC33	6	E	6	A	2
	6	E	6	D	2
ECC35	6	F	6	A	2
	6	F	6	D	2
ECC81	12	E	10	B	3
	12	E	10	G	3

TUBE	A	B	C	D	Skt
ECC82	12	D	10	B	3
	12	D	10	G	3
ECC83	12	F	10	B	3
	12	F	10	G	3
ECC84	6	D	8	F	3
	6	E	8	B	3
ECC85	6	D	6	B	3
	6	D	6	G	3
ECC86	6	E	6	B	3
	6	E	6	G	3
ECC88	6	D	6	B	3
	6	D	6	G	3
ECC89	6	D	8	B	3
	6	D	8	F	3
ECC91	6	E	6	E	4
	6	E	6	F	4
ECC180	6	E	6	G	3
	6	E	6	B	3
ECC186	12	D	10	B	3
	12	D	10	G	3
ECC189	6	D	10	B	3
	6	D	10	G	3
ECC230	6	A	6	A	2
	6	A	6	D	2
ECC801	12	E	10	B	3
	12	E	10	G	3
ECC802S	12	D	10	B	3
	12	D	10	G	3
ECC803	12	F	10	B	3
	12	F	10	G	3
ECC804	6	D	6	B	3
	6	D	6	G	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
ECC807	6	G	6	B	3	ECH81	6	E	6	B	3
	6	G	6	J	3		6	E	6	J	3
ECC808	6	G	6	A	3	ECH83	6	F	6	B	3
	6	G	6	K	3		6	G	6	J	3
ECC960	6	E	6	F	4	ECH84	6	E	6	B	3
	6	E	6	E	4		6	E	6	J	3
ECC962	6	E	6	C	3	ECH200	6	D	6	H	11
	6	E	6	F	3		6	E	6	C	11
ECC2000	6	D	1	C	11	ECL80	6	D	6	J	3
	6	D	1	H	11		6	F	6	B	3
ECF80	6	E	6	B	3	ECL82	8	C	6	C	3
	6	E	6	J	3		8	F	6	A	3
ECF82	6	D	6	B	3	ECL83	6	C	6	J	3
	6	D	6	J	3		6	G	6	B	3
ECF83	6	F	6	J	3	ECL84	6	D	6	H	3
	6	F	6	B	3		6	F	6	A	3
ECF86	6	D	6	B	3	ECL85	6	C	6	J	3
	6	D	6	F	3		6	E	6	B	3
ECF200	6	D	6	C	11	ECL86	6	C	6	H	3
	6	E	6	K	11		6	G	6	A	3
ECF201	6	D	6	C	11	ECLL800	6	F	6	B	3
	6	D	6	K	11		6	C	6	F	3
ECF801	6	D	3	B	3	(See Magnaval Note on Page B)					
	6	E	3	J	3	†*ED500	6	G	2	H	12
ECF802	6	D	6	J	3	(Disregard Shorts except H-K)					
	6	D	6	B	3	EF5	6	D	1	B	3
ECF804	6	E	6	B	3	EF13	6	D	1	B	3
	6	D	6	J	3	EF39	6	E	6	K	1
ECH33	6	E	6	E	1	EF80	6	D	1	B	3
ECH35	6	D	6	K	1	EF81	6	F	9	B	3
ECH36	6	E	6	E	1	*EF82	6	C	1	B	3
ECH80	6	E	6	B	3	(Permissible Short F and one other Pin)					
	6	F	6	J	3	EF85	6	D	3	B	3
						EF86	6	F	2	J	3

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*EF89F	6	D	1	B	3	*EL84	6	C	1	B	3
(Permissible Short F and one other Pin)						(Permissible Short F or H and one other Pin)					
EF91	6	D	6	A	4	EL85	6	C	9	B	3
EF92	6	E	6	A	4	*EL86	6	C	1	B	3
EF93	6	D	6	A	4	(Permissible Shorts F or H and one other Pin)					
EF94	6	D	6	A	4	EL90	6	C	8	A	4
EF95	6	E	2	A	4	EL91	6	C	6	A	4
EF96	6	D	6	A	4	EL95	6	C	8	A	4
EF97	6	D	6	A	4	*EL180	12	C	7	B	3
EF98	6	D	6	A	4	(Normal Shorts C, J)					
EF183	6	D	1	B	3	†*EL500	6	A	2	A	12
EF184	6	D	1	B	3	(Normal Shorts C, F, G, H)					
EF190	6	D	6	A	4	EL803	6	C	6	B	3
EF804	6	F	1	J	3	*EL821	6	C	1	B	3
EF806	6	F	2	J	3	(Permissible Short F and one other Pin)					
EF812	6	D	1	B	3	EL822	6	C	6	B	3
EF861	6	D	1	B	3	ELL80	6	C	6	B	3
EF905	6	D	2	A	4		6	C	6	F	3
EFL200	6	C	6	H	11	*EM85	6	D	1	B	3
	6	D	6	A	11	(Permissible Short F and one other Pin)					
EH90	6	D	6	A	4	(†See Magnoval Note on Page B)					
EK90	6	D	6	A	4	EN93	6	F	6	A	4
EL33	6	F	6	E	1	EQ80	6	F	9	G	3
EL34	6	A	6	E	1	*EY80	6	A	1	J	3
*EL36	6	A	3	E	1	(Disregard Shorts)					
(Permissible Short A and one other Pin)						*EY81	6	A	2	J	3
EL37	6	C	6	E	1	(Disregard All Shorts except H-K)					
EL38	6	C	6	E	1	EY82	6	A	2	J	3
*EL81	6	C	1	B	3	(Disregard All Shorts except H-K)					
(Permissible Short F or G and one other Pin)						*EY83	6	A	1	J	3
EL82	6	B	1	B	3	(Disregard All Shorts except H-K)					
EL83	6	C	6	B	3	*EY86	6	J	1	K	8
						(Disregard Shorts)					

TUBE	A	B	C	D	Skt
*EY87	6	J	1	K	8
(Disregard Shorts)					
*EY88	6	(See Last Page)			
EZ3	6	A	7	A	8
	6	A	7	G	8
EZ4	6	A	7	A	8
	6	A	7	G	8
EZ11	6	A	7	A	8
	6	A	7	G	8
EZ35	6	B	6	C	1
	6	B	6	E	1
*EZ80	6	A	7	A	8
	6	A	7	G	8
EZ81	6	A	7	A	8
	6	A	7	G	8
EZ90	6	B	6	A	3
	6	B	6	F	3
*GY501	3	J	6	K	8
(Normal Shorts A, F, H-K)					
*GZ30	5	B	6	D	1
	5	B	6	F	1
(Normal Short H, H-K)					
*GZ31	5	B	6	D	1
	5	B	6	F	1
(Normal Short H, H-K)					
*GZ32	5	B	6	D	1
	5	B	6	F	1
(Normal Short H, H-K)					
*GZ34	5	A	1	D	1
	5	A	1	F	1
(Normal Short H, H-K)					
H36	6	G	6	K	1
*H52	5	A	6	D	1
	5	A	6	F	1
(Normal Short H, H-K)					

TUBE	A	B	C	D	Skt
H63	6	F	6	K	1
H1112	6	F	6	D	6
H1208	6	F	6	D	6
HAA91	12	E	6	B	4
	12	E	6	G	4
HABC80	19	F	6	H	3
	19	G	6	G	3
	19	G	6	B	3
	19	G	6	A	3
HBC90	12	F	6	A	4
	12	G	6	E	4
	12	G	6	F	4
HBC91	12	F	6	A	4
	12	G	6	E	4
	12	G	6	F	4
HCC85	17	E	6	B	3
	17	E	6	G	3
HCH81	12	F	6	B	3
	12	G	6	J	3
HD14	1	G	6	E	1
	1	F	6	K	1
HD94	6	A	6	E	1
HD96	25	A	6	E	1
HF93	12	D	6	A	4
HF94	12	D	6	A	4
HK90	12	D	6	A	4
HL90	19	C	8	A	4
HL92	50	C	5	B	4
HL94	30	C	5	B	4
HMO4	6	D	6	A	4
HP6	6	E	6	A	4
HY65	6	A	6	E	1
HY90	35	A	7	E	4

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
HZ90	12	B	6	A	4	LF183	4	D	6	B	3
	12	B	6	F	4	*LF184	4	D	6	B	3
KBC32	2	F	6	F	1	(Normal Shorts A, C)					
	2	G	6	E	1	LFL200	11	C	6	H	11
	2	G	6	D	1		11	D	6	A	11
KF35	2	F	6	E	1	*LL86	10	C	1	B	3
KK32	1	E	6	E	1	(Disregard Shorts on F, H and one other Pin)					
KL35	2	E	6	E	1	†*LL521	21	A	1	H	12
KT32	25	C	6	E	1	(Normal Shorts B, C, F, G)					
T61	6	F	6	E	1	†*LL505	27	A	1	H	12
KT63	6	B	6	E	1	(Normal Shorts B, C, F, G)					
KT66	6	C	6	E	1	LN119	50	C	6	C	3
KT71	50	C	6	E	1		50	F	6	A	3
KT77	6	A	6	E	1	LN152	6	D	6	J	3
KT88	6	C	6	E	1		6	F	6	B	3
KTW63	6	E	6	K	1	*LY88	20	(See Last Page)			
KTZ63	6	F	6	K	1	LZ319	9	D	6	B	3
L63	6	E	6	E	1		9	D	6	J	3
L77	6	E	1	E	4	LZ329	9	D	6	B	3
LC900	3	E	2	A	4		9	D	6	J	3
LCF80	8	D	6	B	3	(†See Magnoval Note on Page B)					
	8	D	6	J	3	M8079	6	E	6	B	4
LCF200	5	D	6	C	11		6	E	6	G	4
	5	E	6	K	11	M8080	6	E	1	F	4
LCF201	5	D	6	C	11	M8081	6	E	6	E	4
	5	D	6	K	11		6	E	6	F	4
LCF801	5	D	3	B	3	M8083	6	D	6	A	4
	5	E	3	J	3	M8096	6	C	9	J	3
LCF802	6	D	6	J	3	M8100	6	E	2	A	4
	6	C	6	B	3	M8136	12	D	10	B	3
LCH200	5	D	6	H	11		12	D	10	G	3
	5	E	6	C	11	M8137	12	F	10	B	3
LCL84	10	D	6	H	3		12	F	10	G	3
	10	F	6	A	3	M8161	6	E	6	A	4

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
M8162	12	E	10	B	3	N329	16	C	7	B	3
	12	E	10	G	3	*N359	21	C	9	B	3
M8196	6	E	6	A	4	(Permissible Short F and one other Pin)					
M8212	6	E	6	B	4	*N369	16	C	6	C	3
	6	E	6	G	4		16	E	6	A	3
*M8232	6	G	6	G	4	(Permissible Short F and one other Pin)					
(Emission and Short Test only; Normal Short E, F)						*N379	15	C	1	B	3
M8245	6	C	8	A	4	(Permissible Short F or H and one other Pin)					
N14	1	E	6	E	1	*N707	6	C	1	B	3
N15	3	G	5	F	7	(Permissible Short F, H and one other Pin)					
N16	3	F	9	E	1	*N709	6	C	1	B	3
*N17	3	F	5	C	7	(Permissible Short F, H and one other Pin)					
(Normal Short B, F)						N727	6	C	8	A	4
*N18	3	F	5	C	7	OBC3	12	F	6	B	2
(Normal Short B, F)							12	G	6	D	2
N19	3	F	5	F	7		12	G	6	E	2
+*N22LL	19	A	1	G	12	OF1	6	E	6	K	1
(Normal Shorts, H and one other Pin)						OH4	12	E	6	E	1
N25	3	G	5	F	7	OM6	6	E	6	K	1
N77	6	C	6	A	4	OM10	6	E	6	E	1
N78	6	C	6	A	4	OSW3111	6	D	6	D	1
*N119	45	C	1	B	3	PABC80	9	F	6	H	3
(Permissible Short F or H and one other Pin)							9	G	6	F	3
N144	6	C	6	A	4		9	G	6	B	3
N147	6	F	6	E	1		9	G	6	A	3
*N152	21	C	1	B	3	PC86	4	E	3	F	8
(Permissible Short F or G and one other Pin)						PC95	4	E	8	B	4
N153	15	C	6	B	3	PC97	4	E	1	B	4
*N154	16	C	9	B	3	PC200	8	D	6	C	11
(Permissible Short F and one other Pin)							8	E	6	E	11
N155	6	C	3	B	3						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
PCC84	7	E	7	B	3	PCL85	18	C	6	J	3
	7	E	7	F	3		18	E	6	B	3
PCC85	9	E	6	B	3	PCL86	14	C	6	H	3
	9	E	6	G	3		14	G	6	A	3
PCC88	7	D	6	B	3	†*PD500	9	G	2	H	12
	7	D	6	G	3	(Disregard All Shorts except H-K)					
PCC89	7	D	8	B	3	PF9	6	E	6	K	1
	7	D	8	F	3	PF86	4	F	6	J	3
PCC189	7	E	6	B	3	PFL200	16	D	6	A	11
	7	E	6	G	3		16	C	6	H	11
PCF80	9	D	6	B	3	PH4	6	E	6	E	1
	9	D	6	J	3	PL36	25	C	1	E	1
PCF82	9	D	6	B	3	PL81	22	C	1	B	3
	9	D	6	J	3	PL82	16	C	7	B	3
PCF86	8	D	6	B	3	PL83	15	C	6	B	3
	8	E	6	F	3	*PL84	15	C	1	B	3
PCF200	8	D	6	C	11	(Permissible Short F or H and one other Pin)					
	8	E	6	E	11	*PL87	16	C	9	B	3
(Checked in TC136 only)						(Permissible Short F and one other Pin)					
PCF201	8	D	6	C	11	†*PL500	27	A	2	A	12
	8	D	6	K	11	(Normal Shorts C, F, G, H)					
PCF801	8	D	3	B	3	†PL521	15	A	8	H	12
	8	E	3	J	3	PLL80	12	C	6	B	3
PCF802	9	D	6	J	3		12	C	6	F	3
	9	C	6	B	3	PMO4	6	D	6	A	4
PCH200	9	D	6	H	11	PMO5	6	E	2	A	4
	9	E	6	C	11	PMO7	6	D	6	A	4
PCL82	16	C	6	C	3	PY32	29	A	3	E	1
	16	E	6	A	3	*PY80	19	A	2	J	3
PCL83	12	C	6	J	3	(Disregard All Shorts except H-K)					
	12	G	6	B	3	*PY81	17	A	2	J	3
PCL84	15	D	6	A	3	(Disregard All Shorts except H-K)					
	15	D	6	H	3	*PY82	19	A	2	J	3
						(Disregard All Shorts except H-K)					

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*PY83	17	A	2	J	3	QQVO3-10	12	C	10	A	3
(Disregard All Shorts except H-K)							12	C	10	C	3
*PY88	30	(See Last Page)				QVO3-12	6	C	9	J	3
QA2400	6	E	6	A	4	*QVO6-20	6	C	7	E	1
QA2401	6	E	1	F	4	(Normal Short A, D)					
QA2404	6	E	6	B	4	RZ	2	F	6	E	1
	6	E	6	G	4	*R12	6	J	6	K	3
QA2406	12	E	10	B	3	(Insert two tube leads into Pins 3 and 4. Touch cap lead to top lead on tube.)					
	12	E	10	G	3	*R17	6	A	1	K	8
QA2407	6	B	6	A	4	(Disregard All Shorts except H-K)					
	6	B	6	F	4	*R18	6	A	1	K	8
QA2408	6	E	6	A	2	(Disregard All Shorts except H-K)					
	6	E	6	D	2	*R19	1	H	1	K	8
QB309	12	E	10	B	3	(Disregard Shorts)					
	12	E	10	G	3	*R20	2	H	1	K	8
QB329	12	D	10	B	3	(Disregard Shorts)					
	12	D	10	G	3	R144	6	E	6	A	4
QB339	12	F	10	B	3	SP6	6	D	6	A	4
	12	F	10	G	3	T2MO5	6	E	6	E	4
QEO3/10	6	C	9	J	3		6	E	6	F	4
(+See Magnoval Note on Page B)						TD24	12	C	10	A	3
*QEO5/40	6	C	7	E	1		12	C	10	C	3
(Normal Short A, D)						*TJ-880	6	C	3	B	3
QM559	6	E	6	B	4	(Normal Shorts A, F)					
	6	E	6	G	4	TT23	12	C	10	A	3
QQEO2/5	12	C	10	A	3		12	C	10	C	3
	12	C	10	C	3	TT24	12	C	10	A	3
QQEO3/12	12	C	10	A	3		12	C	10	C	3
	12	C	10	C	3	*U26	6	H	1	K	8
QS2404	6	E	6	B	3	(Disregard Shorts)					
	6	E	6	G	3	*U41	1	H	2	K	1
QS2406	12	E	10	B	3	(Disregard Shorts)					
	12	E	10	G	3	*U49	6	H	1	K	8
QQVO2-6	12	C	10	A	3	(Disregard Shorts)					
	12	C	10	C	3						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
*U50	5	B	6	D	1	U709	6	A	7	A	8
	5	B	6	F	1		6	A	7	G	8
	(Normal Short H, H-K)					U4020	2	F	6	E	1
*U52	5	A	6	D	1	UABC80	28	F	6	H	3
	5	A	6	F	1		28	G	6	F	3
	(Normal Short H, H-K)						28	G	6	B	3
U70	6	B	6	C	1		28	G	6	A	3
	6	B	6	E	1	UBC41	14	F	4	F	9
U74	35	B	6	E	1		14	G	4	E	9
U76	35	B	6	E	1		14	G	4	C	9
U78	6	B	6	A	4	UBC81	14	F	10	B	3
	6	B	6	F	4		14	G	10	F	3
*U119	38	A	2	J	3		14	G	10	H	3
	(Disregard Shorts except H-K)					UBF80	17	F	6	B	3
U147	6	B	6	C	1		17	G	6	G	3
	6	B	6	E	1		17	G	6	H	3
U149	6	B	4	C	9	UBF89	19	E	6	B	3
	6	B	4	F	9		19	G	6	G	3
U151	6	B	6	A	4		19	G	6	H	3
	6	B	6	F	4	UC92	9	E	2	F	4
*U152	19	A	2	J	3	UCC85	26	D	6	B	3
	(Disregard All Shorts except H-K)						26	D	6	G	3
*U153	17	A	2	J	3	UCF80	27	D	6	B	3
	(Disregard All Shorts except H-K)						27	D	6	J	3
*U154	19	A	2	J	3	UCH80	14	D	6	B	3
	(Disregard All Shorts except H-K)						14	F	6	J	3
*U192	19	A	2	J	3	UCH81	19	E	6	B	3
	(Disregard All Shorts except H-K)						19	F	6	J	3
U291	29	A	3	E	1	UCL82	50	C	6	C	3
*U319	19	A	2	J	3		50	E	6	A	3
	(Disregard All Shorts except H-K)					UCL83	38	C	6	J	3
*U381	38	A	2	J	3		38	E	6	B	3
	(Disregard All Shorts except H-K)					UCL86	43	C	6	H	3
U707	6	B	6	A	4		43	F	6	A	3
	6	B	6	F	4						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
UF80	19	D	1	B	3	W719	6	C	6	A	2
UF85	19	D	1	B	3		6	C	6	D	2
UF86	12	D	2	J	3	W727	6	D	6	A	4
UF89	12	D	7	B	3	X14	1	G	6	E	1
*UL84	45	C	1	B	3	X17	1	F	5	D	7
(Permissible Short F, H and one other Pin)						X18	1	F	6	D	7
UR1C	2	F	6	E	1	X20	1	F	6	D	7
UU12	6	A	7	A	8	X25	1	F	6	D	7
	6	A	7	G	8	X63	6	E	6	E	1
*UY82	50	A	2	J	3	X64	6	E	5	K	1
(Disregard Shorts except H-K)						X65	6	E	6	E	1
*UY85	38	A	2	J	3	X66	6	E	6	E	1
(Disregard All Shorts except H-K)						X71M	12	E	6	E	1
*UY89	31	A	2	J	3	X75	12	E	6	E	1
(Disregard All Shorts except H-K)						X76M	12	E	6	E	1
V2M70	6	B	6	A	4	X77	6	D	6	A	4
	6	B	6	F	4	X79	6	E	6	B	3
V741	6	E	1	F	4		6	F	6	G	3
V884	6	E	6	A	4	X119	19	E	6	B	3
V886	6	D	6	A	4		19	F	6	J	3
VP6	6	E	6	A	4	X155	6	E	6	B	3
VP12D	12	F	6	K	1		6	E	6	G	3
	12	G	6	E	1	X719	6	E	6	B	3
	12	G	6	D	1		6	E	6	J	3
W17	1	F	5	F	7	X727	6	D	6	A	4
W25	1	G	5	F	7	X6030	3	G	4	E	1
W26	1	G	5	F	7	XC95	2	E	8	B	4
W61	6	E	6	K	1	XC97	2	E	1	B	4
W63	6	E	6	K	1	XC900	2	E	2	A	4
W76	12	E	6	K	1	XCC82	7	D	10	B	3
W77	6	E	6	A	4		7	D	10	G	3
W147	6	E	6	K	1	XCC189	4	D	6	B	3
W149	6	E	6	F	9		4	D	6	G	3
W179	6	D	6	B	3						

TUBE	A	B	C	D	Skt	TUBE	A	B	C	D	Skt
XCF80	4	D	6	B	3	YC95	3	E	8	B	4
	4	D	6	J	3	YC97	3	E	1	B	4
XCH81	3	E	6	B	3	YCC189	5	E	6	B	3
	3	F	6	J	3		5	E	6	G	3
XCL82	8	C	6	C	3	YF183	4	D	1	B	3
	8	F	6	A	3	YF184	4	D	1	B	3
XCL85	9	C	6	J	3	Z14	1	F	6	K	1
	9	E	6	B	3	Z63	6	F	6	K	1
XF183	3	D	1	B	3	Z77	6	D	6	A	4
XF184	3	D	1	B	3	Z152	6	D	6	B	3
*XL36	13	A	3	E	1	Z179	6	D	6	B	3
(Permissible Short A and one other Pin)						Z719	6	D	6	B	3
*XL84	8	C	1	B	3	Z729	6	F	2	J	3
(Permissible Short F, H and one other Pin)						Z1494	6	D	2	A	4
*XL86	8	C	1	B	3	Z1751	6	E	6	B	4
(Disregard Shorts on F, H, if any)							6	E	6	G	4
XXB	3	F	8	D	9	ZD17	1	G	6	F	7
	3	F	8	E	9		1	H	6	C	7
XXD	14	E	6	D	9	ZD25	1	G	6	F	7
	14	E	6	E	9		1	H	6	C	7
XXFM	6	F	6	C	9	ZD152	6	F	6	B	3
	6	G	6	E	9		6	G	6	G	3
	6	G	6	F	9		6	G	6	H	3
XXL	6	E	5	F	9						
*XY88	16	(See Last Page)									

ADDITIONAL TUBE SET-UP INFORMATION

These additional tubes can be checked on your Mighty Mite Tube Checker in the following manner.

2AH2 — The 2AH2 can be checked by bending pin 9 in toward the center of the base and use the following settings:

	A	B	C	D	Socket
*2AH2	2	J	3	K	10

(Disregard Shorts)

3DG4 Tube can be checked by connecting a jumper wire between pins 1 and 2 before inserting it into socket.

Set-up is:

A	B	C	D	Socket
3	A	1	E	1

(Normal Shorts, C, H-K)

Although the above test only checks one side of the 3DG4, it is generally true that in rectifier tubes, if one half is good the other half in most cases is good too.

5BC3 Tube can be checked by doing the following:

1. Bend pin 6 toward outside of Tube.
(Count pins clockwise when viewing tube from pin side.)
2. Insert Tube so that pins 1 & 2 fall into pins 5 and 6 of socket 5.
(Count pins in counterclockwise direction on socket 5 when inserting tube.)

Settings				
A	B	C	D	Socket
5	A	2	C	5
5	A	2	J	5

(Disregard shorts if emission is O.K.)

***6386**

Connect temporary jumper wire between pins 1 and 5 on tube base.

Set-up is:

6	E	1	C	3
6	E	1	G	3

(Normal Shorts, G, H-K)

***6EU7** (For Mighty Mites not having socket #13)

Connect temporary jumper wire as on 6386.

Set-up is:

6	F	1	H	3
---	---	---	---	---

(Normal Shorts, B, H-K)

7F8 — Connect temporary jumper wire between pins 7 and 8.

7	G	8	C	9
7	G	8	F	9

6R-P10 — Connect temporary jumper wire between pins 5 and 6. Set-up is:

6	C	7	H	3
---	---	---	---	---

(Disregard Shorts)

***6R-R8** — Connect temporary jumper wire between pins 5 and 3 on tube base.

6	D	3	A	3
---	---	---	---	---

(Normal Shorts, D, J, H-K)

19R-LL1 — Connect temporary jumper wire as on 6386.

19	E	1	C	3
19	E	1	G	3

***20EZ7** (for Mighty Mites not having socket #13)

Connect a temporary jumper wire between pins 1 and 5 on the tube base. Set up is:

11	F	1	H	3
----	---	---	---	---

(Normal shorts B, C, H-K)

***1219 and *5670 — Connect temporary jumper wire as on 6386.**

6	E	1	C	3
6	E	1	G	3

(Normal Shorts, G, H-K)

16AQ3, 20AQ3, 30AE3, 30AG3, EY88, LY88, and PY88 have internal support jumpers that can be varied from manufacture to manufacture. If the test listed below does not work, then use the second test using the jumper wire.

Tube	A	B	C	D	Skt
#	A	7	C	8	

(Disregard shorts except H-K)

If the tube will not give an emission reading after a normal warm up time with the above settings, connect a temporary jumper wire between pins 7, 8, and 9 and use the following settings:

Tube	A	B	C	D	Skt
#	A	6	G	8	

(Disregard shorts except H-K)

Use filament voltage listed under tube in set-up chart section.
Tubes marked with an asterisk () indicates that the tube has internal connections. Be sure to read the short test instructions directly below each tube listing before rejecting a tube for shorts.

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